HITACHI

Colour LCD Television

Digital Tuner Models

32LD9700U

32LD9700C

32LD9700N

37LD9700U

37LD9700C

37LD9700N

Non Digital Tuner Models

32LD9600

37LD9600

USER'S MANUAL
MANUEL UTILISATEUR
BEDIENUNGSANLEITUNG
MANUAL DEL USUARIO
MANUALE D'USO
BRUKSANVISNING
BRUKERHÅNDBOK
BRUGERVEJLEDNING
KÄYTTÖOPAS
ΕΓΧΕΙΡΙΔΙΟ ΧΡΗΣΤΗ
GEBRUIKSAANWIJZING



This is the image of the model 32LD9700U.

READ THE INSTRUCTIONS INSIDE CAREFULLY.
KEEP THIS USER'S MANUAL FOR FUTURE REFERENCE
For future reference, record the serial number of your television.
SERIAL NO. _____
This serial number is located on the rear of the television.

Ver. 1

ENGLISH

USER'S MANUAL

Thank you for purchasing the HITACHI LCD Television.
Please read this user’s manual carefully before operating this product.
To ensure proper operation, please read and follow ALL the instructions, especially the “IMPORTANT SAFETY INSTRUCTIONS” and “SAFETY PRECAUTIONS”.
Please keep this user’s manual for future reference.

Ver. 1

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IMPORTANT SAFETY INSTRUCTIONS

- Read this instruction thoroughly.
- Retain this instruction for future reference.
- Heed all warnings and cautions to prevent possible danger.
- Follow all instructions. Improper handling could cause personal injury and/or serious damage to the unit that may shorten its service time.
- Do not block any ventilation openings.
- Install the product in accordance with the manufacture’s instructions.
- Before calling for the technical support or service technician, read “TROUBLESHOOTING” (70 ~ 72) to determine the symptoms when problems occur during installation or operation of the product.
- If serious problems happen (such as smoke or an abnormal odour from the unit), turn off the Main Power, unplug the Power Cord, and then, contact your local dealer immediately.

INTRODUCTION

Thank you for purchasing the HITACHI LCD Television. We hope that you will enjoy the great performance with this product.
This LCD Television has been designed to meet the international standards. However, it could cause personal injuries and property damage if improperly handled. In order to prevent potential danger and obtain maximum benefit from your set, please observe the following instructions when installing, operating, and cleaning the product.
Keep this manual for future reference, and record the serial number of your set in the space provided on the front cover page of this manual.

About This Manual

- The information in this manual is subject to change without notice.
- This manual has been created with extra care. In case that you have any comments or questions regarding this manual, please contact your local dealer or our Customer Service Centre.
- Before operating this set, please fully understand the prerequisite such as specifications or constraints of the hardware and software. We are not responsible and have no liability for any loss, damage or injury as a result of misuse.
- Reproduction, copying, use, modification, and/or transmission in whole or in part of this manual are prohibited without any prior written permission.
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- Licensed by BBE Sound, Inc. under USP5510752 and 5736897.
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 Manufactured under license from BBE Sound, Inc.
- WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc.
 WOW technology is incorporated under license from SRS Labs, Inc.
- SD Logo is a trademark.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- DVB is a registered trademark of the DVB Project. This logo indicates that the product is compliant with European Digital Broadcasting.
- FREEVIEW and the FREEVIEW logo are trade marks of DTV Services Ltd and are used under license. FREEVIEW Logo © DTV Services Ltd 2002. This logo indicates that the product is set up to view digital terrestrial TV.
- The Digital logo is a Certification Mark. This logo indicates that the product will work after implementation of full digital switchover.
- The "HD ready" logo is a trademark of EICTA.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

About Software

You may not alter, decompile, disassemble, decrypt, or otherwise reverse- engineer the Software installed in this product, which are prohibited by law.

Information for users applicable in European Union countries



This symbol on the product or on its packaging means that your electrical and electronic equipment should be disposed at the end of life separately from your household wastes. There are separate collection systems for recycling in EU.
For more information, please contact the local authority or the dealer where you purchased the product.

SAFETY PRECAUTIONS

For your safety, please read the following precautions carefully before using this product. Improper use would cause serious personal injuries and/or damage to your property or this product.

Important For United Kingdom

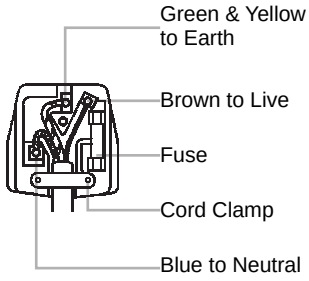
IMPORTANT FOR UNITED KINGDOM
WORDING FOR CLASS I EQUIPMENT INSTRUCTION BOOKS AND LABELS

The mains lead on this equipment is supplied with a molded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.
Should it be necessary to change the mains plugs, this must be carried out by a competent person, preferably a qualified electrician.
If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

WARNING: THIS EQUIPMENT MUST BE EARTHED
IMPORTANT

The wires in the mains lead are coloured in accordance with the following code :
Green and Yellow = Earth, Blue = Neutral, Brown = Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol ⏚ or coloured GREEN or GREEN and YELLOW.
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.



About the Symbols

The following are the symbols used in this manual and affixed on the unit itself. Please fully understand the meanings of the symbols before reading the instructions in this section.

⚠ **WARNING**	Never ignore the instruction. There are risks of serious injuries or possible death to the user.
⚠ **CAUTION**	Do not ignore the instruction. There are possibilities of personal injuries and/or property damage.

Other Symbols	
	The triangle with illustration is intended to alert the users that there are possibilities of fire, explosion, or high temperature if the product is handled improperly. Each illustration within the triangle specifies the contents in detail. (The figure on the left is an example.)
	The circle with diagonal line and illustration indicates a prohibited action (the symbol to the left indicates that disassembly is prohibited.)
	This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).

⚠ WARNING

There is a risk of fire, electric shock, or serious injury.

■ Unplug the power cord immediately when serious problems occur.
Serious problems such as
- Smoke, abnormal odor or noise is emitted from the product.
- No picture, no sound or distorted picture on the display.
- Foreign objects (such as water, metals etc.) get inside the unit.

Do not continue using the product under these abnormal conditions.
Turn off the Main Power, unplug the Power Cord, and contact your dealer immediately.
For your safety, never try to repair the product by yourself.


Disconnect the plug from the power outlet.

⚠ WARNING

There is a risk of fire, electric shock, or serious injury.

■ Do not insert liquids or any foreign objects (such as metals or flammable items) inside the unit.
- In case it happens, turn off the main power, unplug the Power Cord, and contact your dealer immediately.
- Use special caution when younger children are around the unit.



■ Do not remove cover, or modify the product.
- High-voltage components are installed inside of the unit. Removing covers can expose you to high voltage, electrical shock, and other dangerous conditions.
- Contact your local dealer to perform servicing such as inspection, adjustment, or repair work.





Do not disassemble

■ Install the unit in a sensible place where it does not expose anyone to danger or injury.
- Impact with the edge of the unit could cause injury.



■ Do not place any objects on top of the unit.

Objects such as
- Liquid containers (vase, fish tank, flowerpot, cosmetics or liquid medicine).
- If water or any liquid spill onto the unit, it may cause short-circuit and result in fire or electrical shock.
- In case that it happens, turn off the Main Power, unplug the Power Cord, and contact your dealer immediately.
- Do not place anything heavy on top of the unit.
- Do not climb on or hang from the unit.
- Do not let your pets get on top of the unit



■ Do not expose this unit to rain or moisture.
- Never use this unit in the bathroom or shower room.
- Beware when you use this product outside, especially in rainy, or snowy weather, and at the beach or waterfront.
- When the product gets wet, it could cause fire or electrical shock.





■ Unplug this unit during lightning storm.
- To reduce the risk of electrical shock, do not touch the product when starts lightning.





Disconnect the plug from the power outlet.

■ Do not do anything that may damage the Power Cord.
- Do not damage, modify, twist, forcibly bend, heat, or pull excessively the Power Cord.
- Do not place heavy objects (including the unit itself) on top of the Power Cord.
- If the Power Cord is damaged, contact your dealer for repairs or exchange.



■ Use only with designated power supply voltage.
- To prevent the risk of fire and electrical shock, operate this product only with the power supply voltage indicated on the unit.



■ Beware not to drop or have any impact on the unit.
- Take extra care while moving the unit.
- There is no protection glass on the surface of the LCD panel. Thus, do not press the panel surface with your fingers or hands. Or do not hit anything against the unit. These actions would damage the LCD cells or the panel surface and could cause the failure or personal injuries.
- In case that you drop the unit or the cabinet is damaged, turn off the Main Power, unplug the Power Cord and contact your local dealer immediately.
- Continuing use of the product with above conditions would cause fire or electrical shock.



■ Clean dust or metals on or around the blade of the power plug regulary.
- Continuing use of the product with above condition may cause fire or electrical shock.
- Always unplug the Power Cord first, and clean the blades with a dry cloth.



⚠ CAUTION

■ Do not place the unit on an unstable surface.
Unstable places such as
- Tilted surface or shaky rack, table, stand or trolly.
- If the unit falls down, it could cause personal injury.



■ Do not place the unit at a dusty place.
It could cause malfunction.



■ Do not cover or block any ventilation holes on the product.
The unit would overheat, and it could cause fire or damage the product which may shorten its service life.
- Install the product in accordance with the instructions in this manual.
- Do not place the unit with ventilation side down.
- Do not install the unit on the carpet or bedclothes.
- Do not cover the unit with table cloth etc.



■ Be sure to ground the earth cable correctly.
- Especially when you use Power Cord adapter, be sure to connect the earth cable to the ground terminal. Incorrect connection would cause fire or electrical shock.
- For your safety, always make sure to unplug the Power Cord before connect or disconnect the earth cable .



■ Follow the Anti-tumble measures in this manual.
- If the unit tumbles over, there is a risk of personal injury and possible death. Also, it would damage the product seriously.



■ Do not install this product near the medical devices.
- To prevent malfunction of the medical devices, do not use this product and medical devices in the same room.



■ Do not place the CRT-based television near the speakers of the LCD television.
- It could cause the partial discoloration or blurring of the image on a CRT-based television. Please install it away from the speakers of the unit.



■ Disconnect all of the external connection cables and detach the anti-tumble measures before moving the unit.
- It may cause fire, electrical shock, or personal injuries.



■ Connect the power plug securely.
- Improper connection will cause overheating and may result in fire.
- Do not touch the blades of the plug while connecting it to the wall socket. It could cause electrical shock.
- If the plug is not fitted for the wall socket, contcat your dealer for replacement.



■ Do not handle the Power Cord with wet hands.
- It could result in electrical shock.



■ Do not pull the cord when you unplug the Power Cord.
- It may damage the cord and could result in fire or electrical shock.
- Hold the plug when disconnecting it.



■ Unplug the Power Cord when you do not intend to use the product for long periods of time.



■ Handle the batteries properly.
- Improper or incorrect use of the batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to property.
- Use only the types of the batteries which are indicated in this manual.
- Do not insatall new batteries with used ones.
- Install the batteries correctly by following the polarity (+ and -) indications on the battery compartment.
- Do not despose of the used batteries as domestic waste. Dispose of them in accordance with the local regulations.



PRECAUTIONS

■ Do not install areas where it will be subjected to high temperatures.



It could damage the cabinet or parts of the product.

- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Keep the unit out of direct sunlight. It could increase the temperature of the unit and cause malfunction.

■ Viewing Advice

- The lighting of the environment in which the product is used should be appropriate. Too bright or dark environments are not good for your eyes.
- Take time to relax your eyes occasionally.
- When you use this product, view from a distance equal to 3 to 7 times the height of the screen. This is the best viewing distance in order to protect your eyes against eyestrain.
- Adjust the volume to an appropriate level, especially during the night.

■ When transporting this product:



- When the product needs to be transported due to moving or repair, use the carton box and buffer material that came with this product.
- Do not transport this product on its side. It could damage the panel glass or degrade the phosphors of the panel.

■ Keep radio away from this unit whilst in use.



This unit is designed to meet the international EMI standards due to prevent radio interference. However, the unit may generate noise in the radio.

- If the noise is heard on radio, please try the following actions.
 - Adjust the direction of the radio antenna in order not to receive the interference from the unit.
 - Keep the radio away from the unit.
 - Use coaxial cable for the antenna.

■ About infrared communication devices:

- The infrared communication devices such as cordless microphones or cordless headphones may not operate properly around the unit. It is because of communication failure. Please note that this is not malfunction.

■ When you dispose of this product at the end of its life, follow the regulations in your residential area.

- For more information, contact the local authority or the dealer where you purchased the product.

Cleaning and Maintenance

Please make sure to unplug the power cord before cleaning the unit.

■ How to clean the LCD panel of the unit.

- Wipe the panel with a lint-free and dry cloth in order to prevent damage to the panel surface.
- Do not use a chemical cloth or cleaner. Depending on the ingredients, it may cause discoloration and damage the panel surface.
- Do not wipe with a hard cloth or rub hard. It may hurt the panel surface.
- In case of the greasy dirt such as fingerprint, wipe with a lint-free cloth moistened by a diluted neutral detergent solution, and then wipe with a soft and dry cloth.
- Do not use a spray cleaner. It could cause malfunction.

■ How to clean the cabinet of the unit.

- The following may cause crack, deformation, and paint peeling.
 - Do not wipe the cabinet with benzene, thinner, and other chemical products.
 - Do not spray volatile solutions such as insecticide over the cabinet.
 - Do not leave the cabinet in prolonged contact with plastic or rubber materials.
- Do not use a chemical cloth, cleaner or wax. Depending on the ingredients, it may cause crack and deformation.
- Use a lint-free cloth to clean the cabinet and control panel of the monitor. In case of the heavy dirt, wipe with a soft cloth moistened by a diluted neutral detergent solution, and then wipe with a soft and dry cloth.
- Never use the following detergents. It could cause crack, discoloration, and scratch.
 - Acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc.

ABOUT LCD PANEL

Common Phenomena of LCD Panel

The following are the common phenomena when operating LCD Panel due to its structural reason.
Please note that they are not malfunctions.

• Defective Spots on Panel
The LCD panel is manufactured with high-precision technology. However, there might be some spots that are not emitted, brighter than the others, or in different colours, etc.

• Surface on Panel
The LCD panel displays images by blinking the fluorescent lamps internally. This could raise the temperature of the display surface.
In addition, do not impact strongly on the surface of the panel because LCD panel is made with fine processing glass.

• Residual image
When a still image or menu is displayed on the screen for a short time (about a minute) and then switches to another image, it may leave an “after-image” on the screen.
The residual image will disappear on its own.

• The Usage under the Low Temperature Environment
Because of the structural characteristics of the LCD panel, the response speed of the LCD panel becomes slower when the ambient temperature around the monitor becomes too low. In some cases, it may cause the residual image.
The residual image will disappear on its own as the temperature goes up and back to normal.

FEATURES

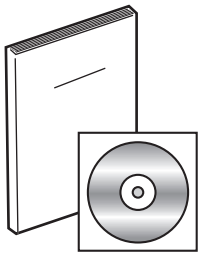
Enjoy not only beautiful and high-quality pictures on the display, but also various kinds of useful and convenient functions in your daily life!

- Large-screen and high-definition LCD panel.
- Improved Digital signal processor.
- High quality sound with deeper, richer and dynamic bass tones.
- 9700 models have various functions as Digital Terrestrial Television (More TV channels, EPG, etc).
- 3 Scart terminals installed.
- Accept more digital input devices with 2 HDMI terminals.
- Great diversity of connecting terminals to cover wide range of audio-visual equipments.
- Enjoy the image from PC with large, high-definition LCD screen.
- New Photo Input function with selectable Background Music.
- SD Card Slot installed.
- Easy-to-use On-Screen Display system operating with Remote control.
- Low power consumption with Power Saving feature.
- Motorized Power Swivel feature.
- Provided 1200 pages for Teletext.

SUPPLIED ACCESSORIES

Check the supplied accessories before installation.
In case of missing or damaged, please contact the dealer immediately.

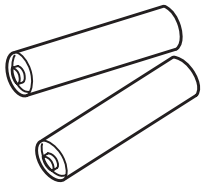
User's Manual



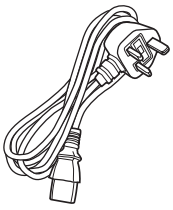
Remote Control



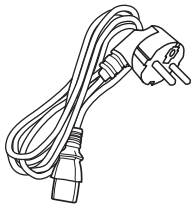
AA size batteries
X2



Power Cord



UK only



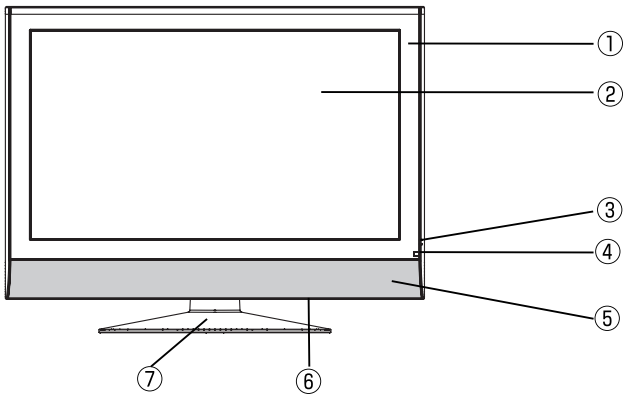
Except UK

* The type of power plug provided is different depending on the model

COMPONENT NAMES

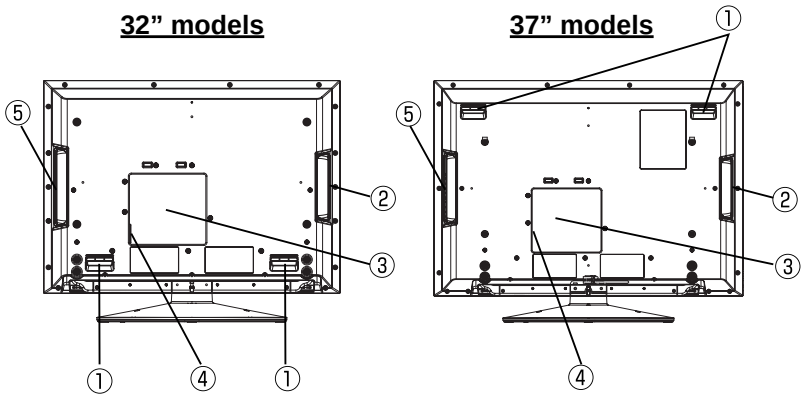
Main Unit

Front Panel



① Cabinet
② Panel
③ Indicating Lamp
④ Remote Control Receiver
⑤ Speaker
⑥ Main Power Switch (on the bottom surface)
⑦ Desktop Stand

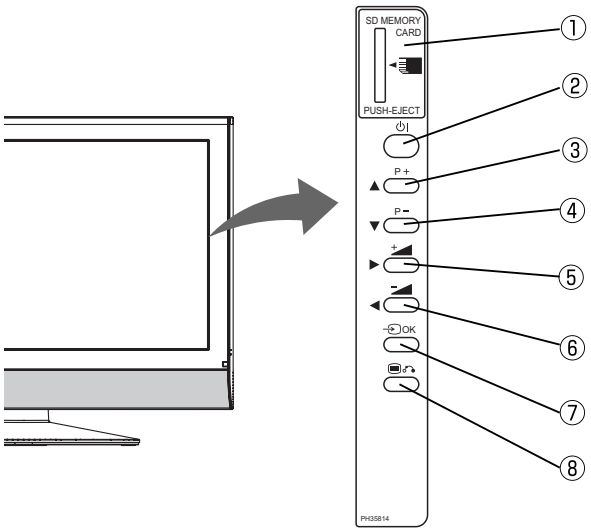
Rear Panel



① Handgrips
② Side Input
③ Terminal Board (External Device Connection)
④ Power Cord Socket
⑤ Control Panel (see below for details)

Please refer to 14 ~ 19 for the detailed information for the connections.

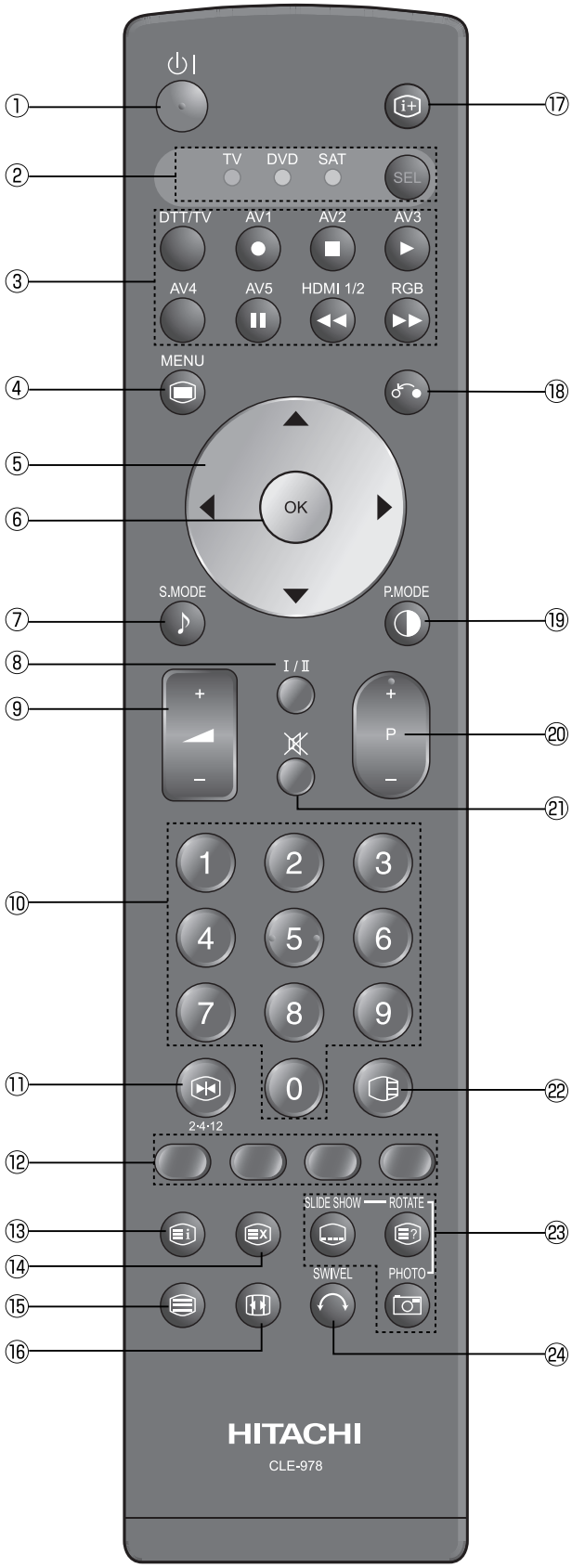
Control Panel (including Card Slot)



① SD Memory Card Slot
② Sub Power button
③ Channel UP/▲button
④ Channel DOWN/▼button
⑤ Volume UP +/►button
⑥ Volume DOWN −/◄button
⑦ Input Select /OK button
⑧ Menu / Return button

COMPONENT NAMES (Continued)

Remote Control



① **Sub Power**
② **Function Select (TV/DVD/SAT)**
Press this button to select function mode indicating LED lamp.
Normally, select “TV”.
③ **Input Select/DVD Control/Photo Input Control**
Press this button to change input mode.
In addition, you can use these buttons while operating the selected brand of DVD player or Photo Input function. (DTT input: 9700 models only)
④ **Menu**
⑤ **Cursor**
⑥ **OK**
⑦ **Sound Mode**
Sound mode can be changed each time pressed in the following sequence. Movie→Music→Speech→Favourite
⑧ **CHI/II**
This is exclusively for TV audio A2/NICAM mode.
⑨ **Volume Up/Down**
⑩ **Programme Select**
Press these buttons to select a TV program directly.
⑪ **Freeze/Multi Mode [Hold]**
Press this button to change the picture to freeze mode. Press it again to return to normal picture.
In addition, during multi-picture mode, each time press this button, the picture is changed to 2, 4, and 12 multi mode. (Also, it holds the page in text mode.)
⑫ **[Colour (Red, Green, Yellow, Blue)]**
⑬ **[Index]**
⑭ **Time [Cancel]**
Pressing this button can indicate the time by On-Screen display when receiving a TV programme on the screen.
⑮ **TV/Text [TV⇔Text]**
This switches between the TV mode and the Teletext mode.
⑯ **Zoom [Text⇔TV+Text]**
Press this button to change picture size.
⑰ **Recall**
Pressing this button shows the input signal status.
⑱ **Return**
You can use this to return to the previous menu.
⑲ **Picture Mode**
Picture mode can be changed each time pressed in the following sequence. Dynamic→Natural→Cinema
⑳ **Channel Up/Down**
㉑ **Mute**
㉒ **Multi Picture**
Press this button to change the picture to multi-picture mode. Press it again to return to normal picture.
㉓ **Photo Input (Photo/Rotate/Slide Show)**
These buttons are to display and control the pictures from digital still camera or USB card reader.
㉔ **Swivel** (with Desktop Stand)
This function is to rotate TV. Select the degree of rotation with cursor key.

NOTE
Some buttons are only for Teletext mode, and other buttons have different functions in Teletext mode from the use of TV mode. Those buttons are indicated by **[]**. Refer to "Analogue Teletext" on 39.

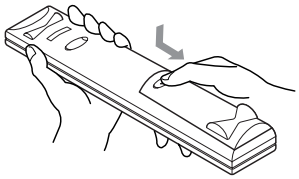
PREPARATION

Remote Control Batteries Installation

This remote control operates on **2 “AA”** batteries.

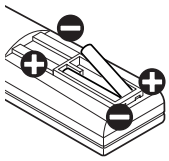
1. Open the battery compartment cover

- Slide open the battery compartment cover on the backside of the remote control in the direction of an arrow.



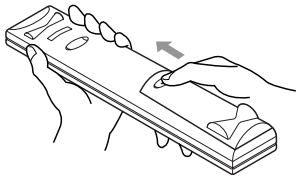
2. Install the batteries

- Install 2 “AA” batteries (included) making sure the polarities match the indication inside the compartment.



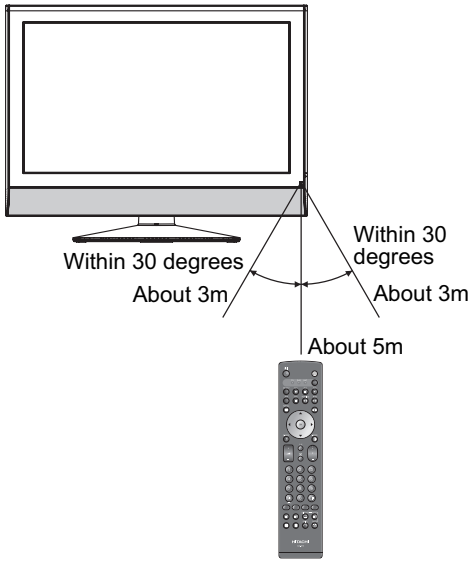
3. Close the battery compartment cover.

- To close the battery compartment cover, slide the cover in the direction of an arrow till it clicks shut.



Handling the Remote Control

Use the remote control within about 5m from front of the unit’s remote-control sensor and within 30 degrees on both sides.



⚠CAUTION

It could cause corrosion or battery leakage and may result in physical injury and/or property damage including fire.

- Never mix used and new batteries in the device.
- Replace all the batteries in a device at the same time.
- Remove the batteries if the remote control is not going to be used for an extended period of time.

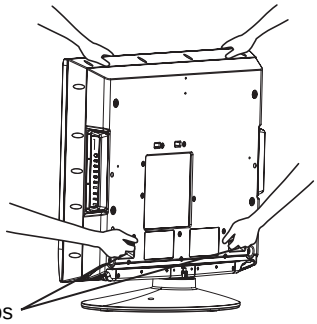
To avoid possible failure, read the following instructions and handle the remote control properly.

- Do not drop or cause impact to the remote control.
- Do not spill water or any liquid on the remote control.
- Do not place the remote control on a wet object.
- Do not place the remote control under the direct sunlight or near sources of excessive heat.

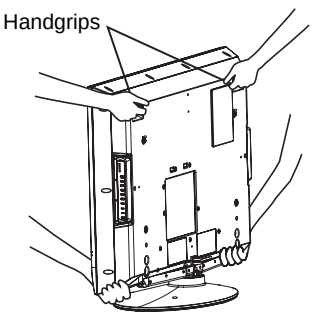
Caution When Moving the Main Unit

As this product is heavy, whenever it is moved, two people are required to transport it safely.
When transferring the unit, hold the unit by using the handgrips at the backside of the panel. (See the figures below for details.)

32” models:



37” models:



Safety Precaution on Main Unit Installation

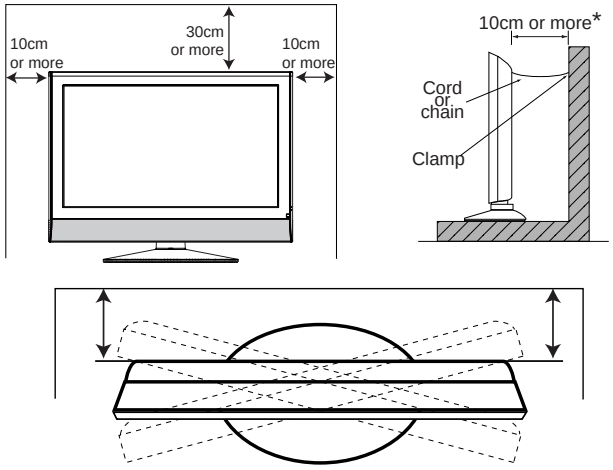
Read SAFETY PRECAUTIONS (4 to 7) carefully besides this page.
*The Desktop Stand has been used for the illustration in this manual.

When installing the main unit, be sure to use the specified mount units in order to obtain maximum performance and maintain the safety.
We assume no responsibility or liability for personal injuries or property damages caused by use of other mount units or improper installation.

As for the installation instruction, please read each user's manual of the mount units: for Desktop Setup, Wall Mounting, and Ceiling Mounting.
In case of using Wall or Ceiling Mounting unit, by contacting your local dealer, ask the specified installation specialist to set up. Never attempt to install it by yourself. It could cause injuries or damages.

Please leave the adequate space around this unit in order to avoid increasing the internal temperature and keep safety while using swivel function.
Make sure not to block any ventilation holes.
Do not install the unit in the small space such as inside the rack, closet or the box.
Leave more than 10cm of clearance from each side of unit and 30cm from the top of unit to wall.

Without Swivel function: Leave at least 10cm of clearance behind rear unit.
With Swivel function: Leave the adequate space to obtain the maximum performance of Swivel Function.
(32" models: 25cm , 37" models: 29cm)
Refer to 51 for Swivel Function.

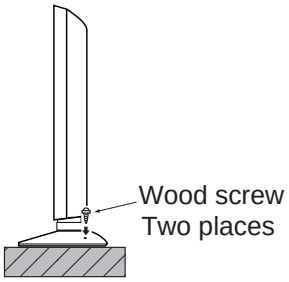


Anti-Tumble Measures

Install in a stable place and implement safety measure against overturning.

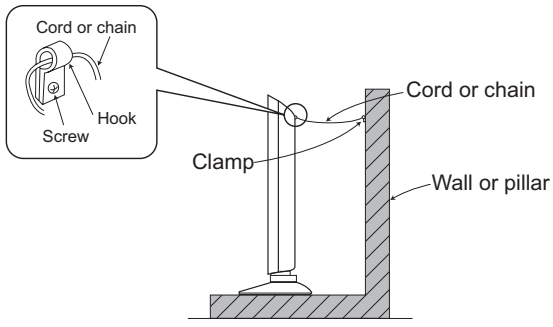
Securing on desktop

Using commercially available wood screws, secure the set firmly in position by fastening them to the screw holes at the rear of the stand as shown in the diagram.



Securing to a wall or pillar

Using a commercially available cord, chain, and clamp, secure the set to a wall or pillar.



Securing to ceiling

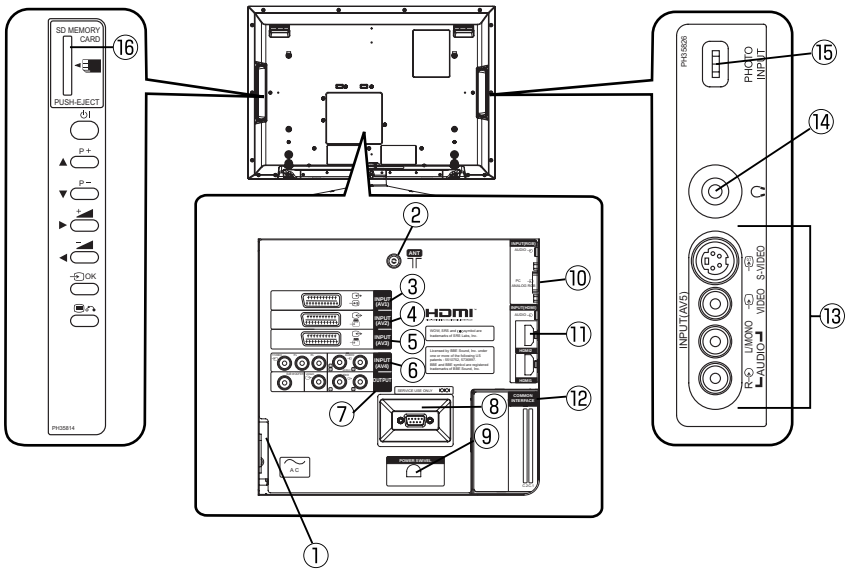
Using a commercially available cord, chain, and clamp, secure the set to a ceiling.

NOTE

- For more information regarding the mounting of the unit, please contact your dealer.
- Loosen a cord or chain enough while operating power swivel to avoid physical injury.
- Please install the unit in a sensible location where it does not expose anyone to the danger of knocking into the unit, causing injury to themselves or the LCD TV.

CONNECTION

Terminal Positions



Rear

① Power Cord Socket
② Aerial Socket
③ AV1
④ AV2
⑤ AV3
⑥ AV4
⑦ Monitor Out and Sub Woofer
⑧ Service use only
⑨ Power Swivel Terminal
(See 51)
⑩ PC Connection terminals
(D-sub 15 pin and mini stereo for Audio)
⑪ HDMI1, 2 and mini stereo for Audio
⑫ Common Interface slot
*9700 models only

Side

⑬ AV5
⑭ Headphone terminal
⑮ Photo Input terminal
⑯ SD Memory Card slot

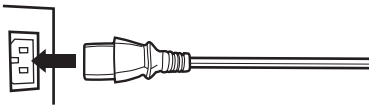
Connecting Procedure

This unit is ready for various kinds of connections. Make a connection in the following steps. Be sure to turn off the Main Power first when connecting external equipments.

1. Connect Power Cord to the rear panel.
2. Connect Aerial Lead.
3. Connect your external equipments to the unit if any.
4. Connect the Power Plug to the Wall Socket.

1. Connecting Power Cord to the Rear Panel

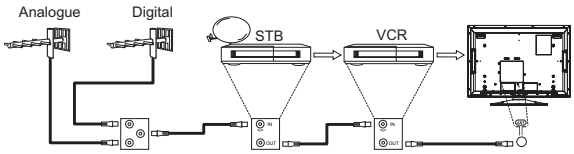
Connect Power Cord to the unit.
*Make sure not to connect the Power Plug to the Wall Socket until all connections are completed.



2. Connecting Aerial Lead.

There are two ways to connect Aerial Lead.

- **When you do not have any other external equipment:**
 Connect the Aerial Lead directly into the Socket at rear panel.
- **When you have one or more external devices to connect:**
 1. Use RF cable to connect between each equipment and Antenna.
 2. Connect the Aerial Lead to the Aerial Input socket of an external device such as a VCR.
 3. Connect the RF cable from the equipment 'Out' to the other equipment 'In.'
 4. Then, connect from the equipment 'Out' to "ANT" on the LCD screen Socket on marked.



[Example: Connecting Antenna through STB and VCR]

NOTE

- If analogue and digital broadcast signals are provided from the separated cables (antenna), please use a mixer and RF cable to connect antenna terminal in order to receive both signals.

Precautions when connecting the aerial

- Please use a coaxial cable which is free from interference to connect the aerial. Avoid using a parallel flat feeder wire as interference may occur, causing reception to be unstable and stripe noise to appear on the screen.
- Avoid using indoor aerial as this may be affected by interference. Please use CATV net or outdoor aerial.
- If noise appears in the picture of VHF-Low band channel, please use a double-shielded cable (not provided) for RF LEADS to reduce the noise.

Connecting Procedure (continued)

3. Connecting to External Equipment

- Terminals on Rear

AV1 can be connected to the equipment with Composite/S-Video/Audio input, and Composite/Audio output.
The output signal can support not only Analogue but also Digital Terrestrial TV signals.

INPUT Composite/S-Video/Audio



If STB is connected to AV1 in France, it descrambles some of the Pay TV images by resending the signal again (In/Out).

OUTPUT Composite/Audio



When you are watching either TV or DTT broadcasting from AV1, you can switch to the other by setting "Scart Output" in Setup menu. For example, whilst you are watching TV, it is possible to record the DTT programme. Refer to 26 27 about "Scart Output" in Setup menu.

AV2 and 3 can be connected to the equipment with Composite/RGB/Audio input, and Composite/Audio output.

INPUT Composite/RGB/Audio



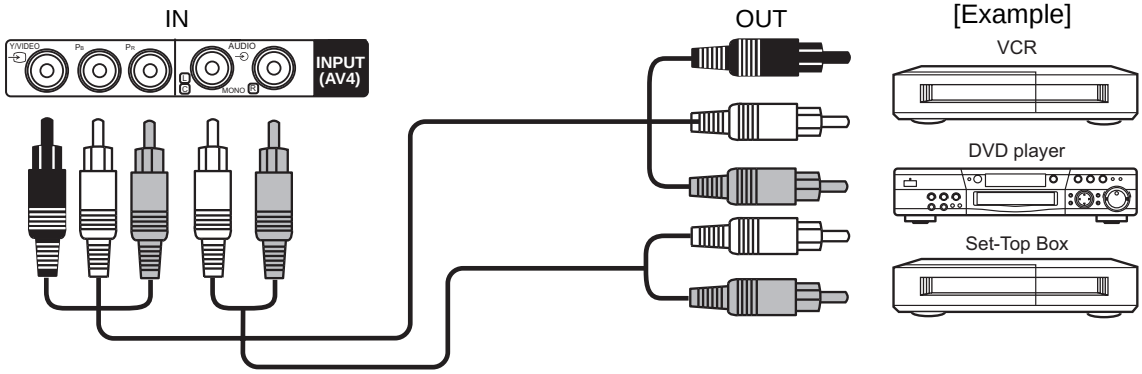
OUTPUT Composite/Audio



CONNECTION (continued)

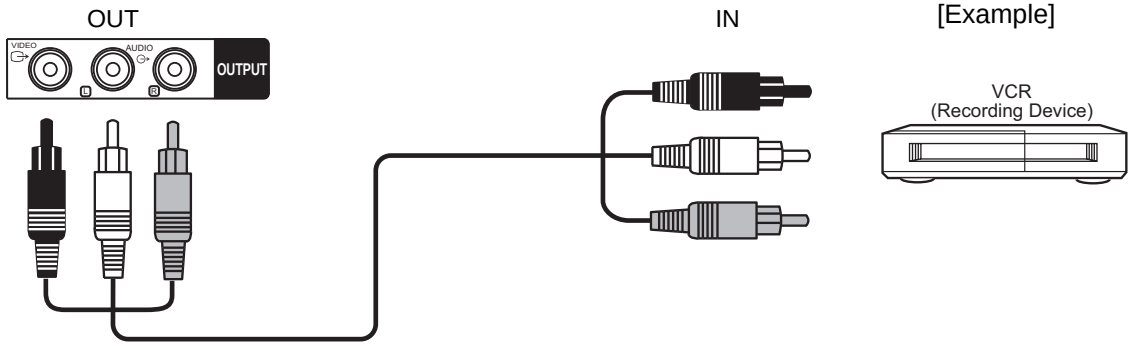
Connecting Procedure (continued)

AV4 can be connected to the equipment with either Component or Composite output. Depending on whether the Y/VIDEO input of your selected equipment is Y signal or Video signal, it automatically regards as Component or Composite. When using as Composite, do not insert the jacks into P_B or P_R.

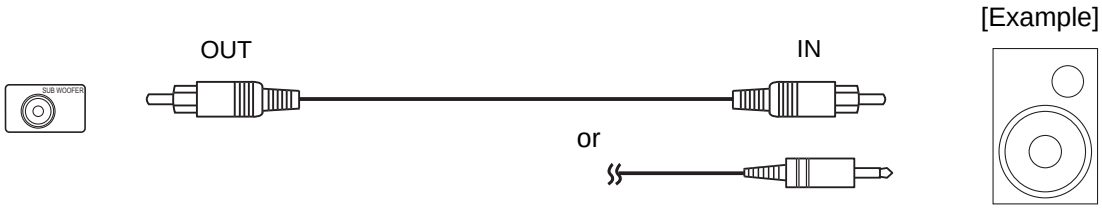


If your external device has a Component terminal, COMPONENT connection is recommended for higher quality picture.

Monitor Out can be used to display same image as main unit on another monitor.
When this output terminal is connected to an external monitor with a 75 Ohm terminal, the same image from composite(AV1~5), or RF signal can be displayed to the external monitor.

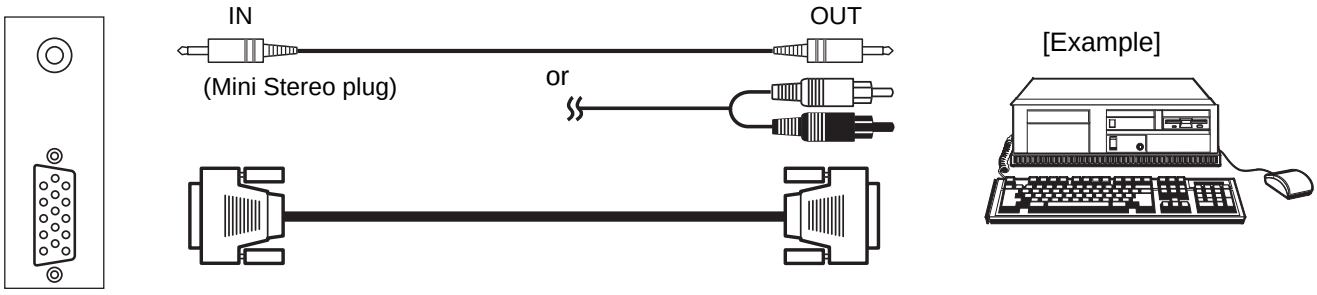


Sub Woofer terminal can bring the deep bass sound from the external speaker.

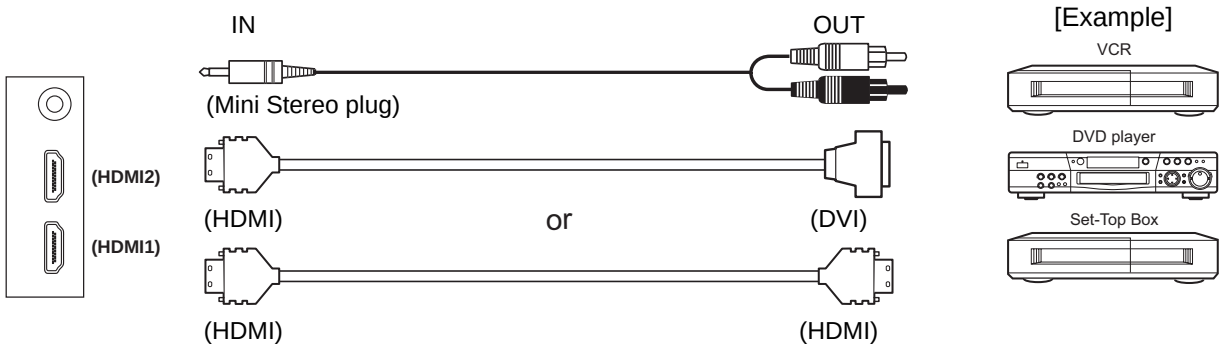


Connecting Procedure (continued)

PC terminals (D-sub 15 pin + audio) is connected to PC, which allows Analogue RGB signal.



HDMI 1·2 terminals can be connected to the devices with HDMI output, or if the external device has DVI output, this can be available with HDMI-DVI conversion cable. In case of using the HDMI-DVI, connect to audio terminal besides HDMI.



Information

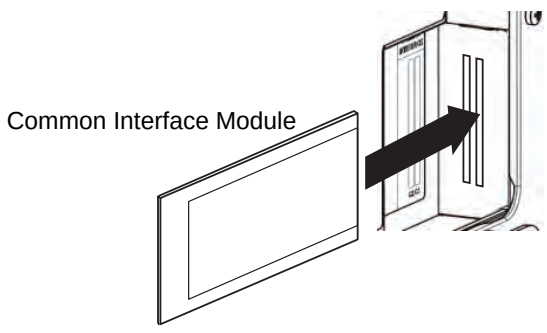
HDMI(High Definition Multimedia Interface) is next-generation multimedia I/O interface. Only one cable is used to transmit all video/audio/control signals, which creates easy connection.
Moreover, those digital signals can produce high quality data without any degradation.
You are provided with two HDMI terminals, one of the most remarkable features.

If your external device has a HDMI terminal, HDMI connection is recommended for higher quality picture and sound.

NOTE

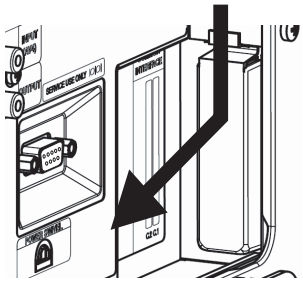
- When both HDMI1 and HDMI2 terminals are connected to devices via HDMI-DVI conversion cable, HDMI2 has a priority over the audio terminal.

Common Interface Slot allows you to receive Pay TV service with detachable modules.
Before inserting the module, make sure to turn off the main power, and take off the cover of slot as shown and then insert the module all the way into the slot. Refer to 50 for the details.
*9700 models only



Remove the slot cover

Push the top of slot cover to release the interlock and lift it the direction as shown.

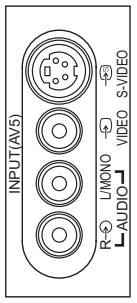


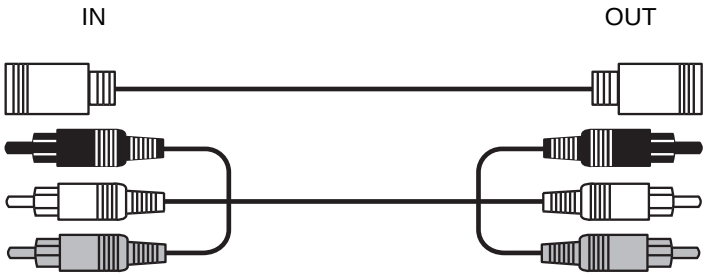
Connecting Procedure (continued)

● Terminals on Side

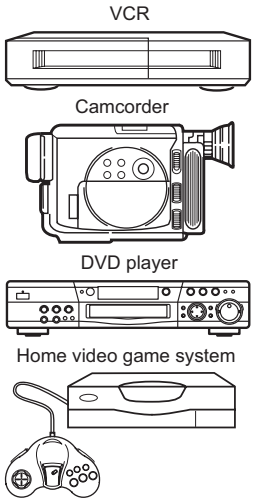
Since the following terminals are located on the side, it is very convenient to connect an extra device on a temporary basis after completing the connections on the rear panel.

AV5 can be connected to the equipment with S-Video output and composite output.



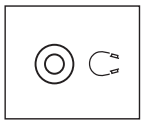


[Example]



If your external device has S-video terminal, S-VIDEO connection is recommended for higher quality picture.

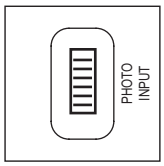
Headphone The detail settings can be adjusted from Audio Menu on page 38.





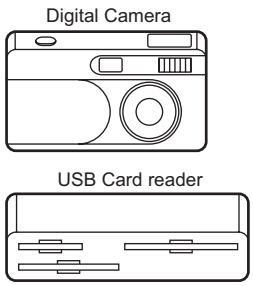
The audio from the speaker will be muted when connecting the headphone to this terminal.

Photo Input terminal can be connected to a digital still camera or USB card reader with USB cable. For details, refer to the Photo Input function shown on 61~66.





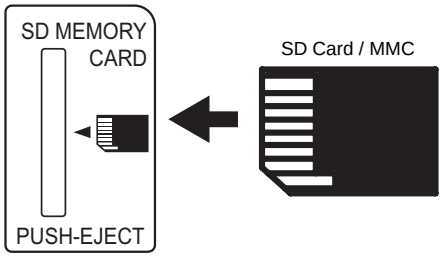
[Example]



NOTE

This photo input terminal does not support general USB devices such as USB memory. Please do not connect with those devices.

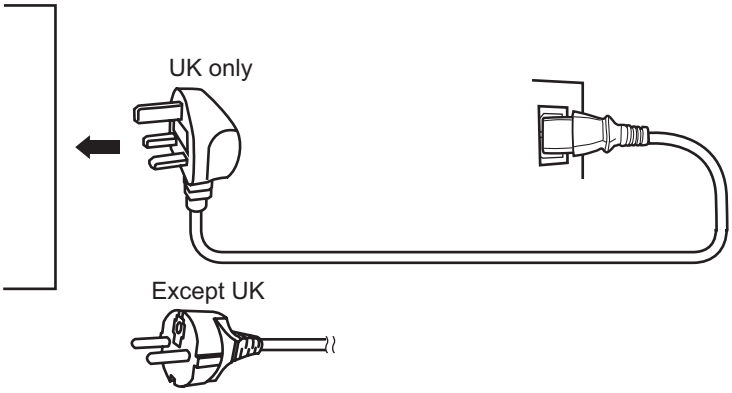
SD Memory Card slot can be used for the Photo Input function with the SD (or MMC) card memory containing pictures. For details, refer to the Photo Input function shown on 61~66.



Connecting Procedure (continued)

4. Connecting the plug into the wall socket

Connect the Power Cord after completing all other connections.
(The type of plug is different from this drawing for some countries.)



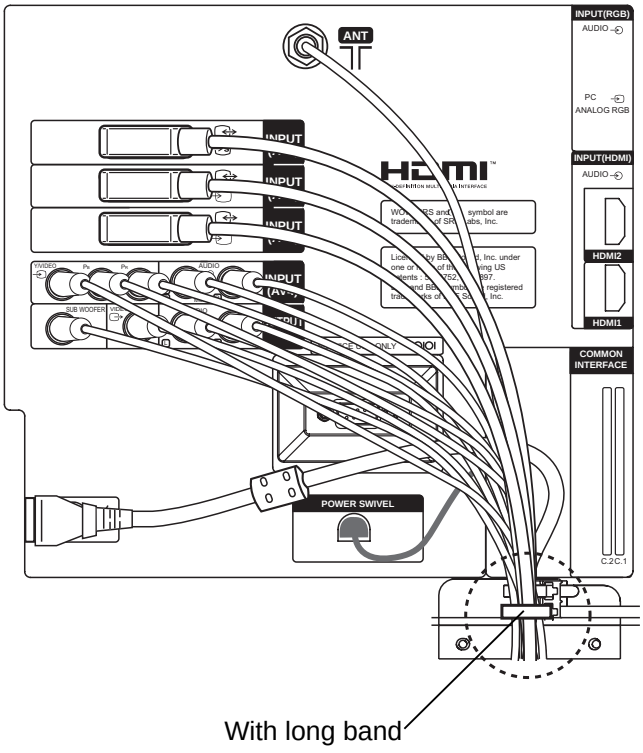
⚠CAUTION

- Use only the Power Cord provided.
- Do not use a power supply voltage other than that indicated(AC220-240V, 50Hz). It may cause fire or electric shock.
- For the LCD television, a three-core power cord with a ground terminal is used for efficiency protection. Always be sure to connect the Power Cord to a grounded outlet and make sure that the cord is properly grounded. If you use a power source converter plug, use an outlet with a ground terminal and screw down the ground line.
- Ensure that both ends of power cord are easily accessible.
- If you have to change the power cord, please use the certified power cord that meets your region's safety standard.

Information

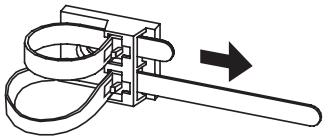
- **How to secure the cables.**

After connecting all of the cables to the terminals, secure them with the band.
When you secure the cables, please be careful not to tighten too much.



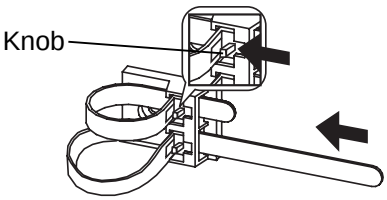
How to fasten the band:

- **To tighten**



Pull the band in the direction of the arrow.

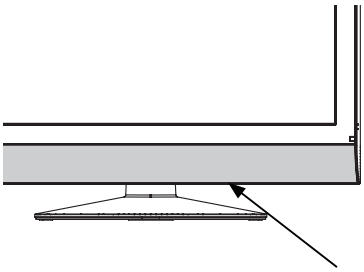
- **To loosen**



Loosen the band by pushing the knob in the direction of the arrow.

BASIC OPERATION

Power On/Off



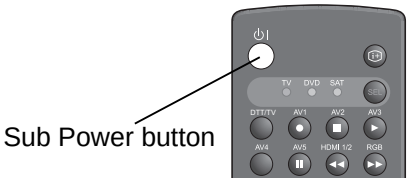
Main Power switch (on the bottom surface)

Now, turn On the main power to the unit. Make sure that the Power Cord is plugged into the wall socket.

● To turn On the power of the unit:

1. Press the **Main Power switch** on the unit.
 - The Indicating Lamp will illuminates in **Red** (Standby mode).

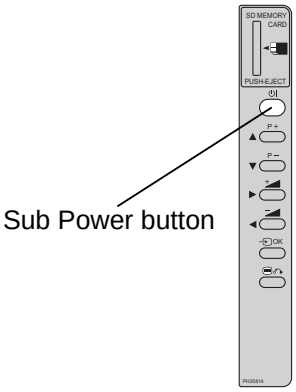
2. Press **Sub Power** button either on the control panel or on the remote control.
 - The colour of the Indicating Lamp turns into **Green**, and the image will display on the screen.



● To turn Off the power of the unit:

1. Press **Sub Power button** either on the control panel or on the remote control.
 - The image disappears from the screen and the Indicating Lamp turns into **Red** (Standby mode).

2. Press **Main Power switch** to completely turn Off the power of the unit.



The Indicating Lamp Status Check

Indicating Lamp Status	Power Status	Power Switch Status
Off	Off	Main power → Off
Red	Standby mode	Main power → On Sub Power button → Off
Blinks in Red**	Standby mode	Standby mode as above whilst upgrading DTT version and operating Timer Programming on digital channel.
Green	On	Main power → On Sub power button → On
Orange	Power Save mode*	Main power → On Sub Power button → On
Blinks in Orange**	Power Save mode	Power Save mode as above whilst upgrading DTT version and operating Timer Programming on digital channel.

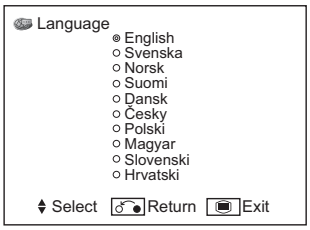
*About Power Save mode, see “Power Save Mode” and “When Following Messages Appear on the Screen” on 68 and 70 for details.
**9700 models only

NOTE

- If the image does not appear on the screen at all, or have any problem, see TROUBLESHOOTING on 70~72. It may help you to solve the problems.
- You can turn ON the power only by pressing the **Sub Power** button during the Standby mode.
- Do not switch the power On/Off repeatedly in a short period of time. It could cause malfunction.
- To avoid sudden surges of electricity when the power comes back on, turn Off the main power of the unit before you leave if there is a power cut during use of the unit.

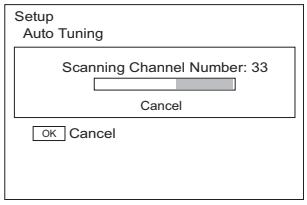
Easy Preset

When you turn ON the TV for the first time, your TV automatically leads to the settings of “Language,” “Country” and “Auto Tuning.” (Also, refer to the attached Quick Guide.)



This is an example of 32/37LD9700U/N.

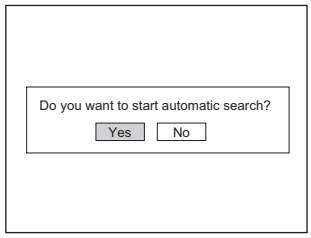
1. The first screen appeared will ask you to choose the language of your Analogue TV’s display.
2. Using ↕ button, select language you preferred from the list and press OK button.
3. Then, using ↔ button, select your residing country and press OK button.
4. The auto tuning screen appears, and your TV will now search analogue channels through the frequencies storing them in order.



> Depending on your residing country, it does not proceed to DTT auto tuning (5~8). DTT auto tuning process varies according to the model.

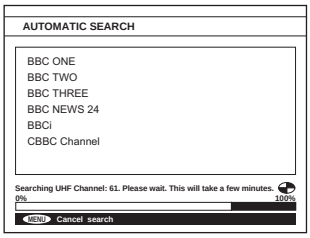
If you have 32/37LD9700U:

5. The dialogue box will appear to ask you if you wish to tune in the DTT channels and select “**Yes**” so that your TV will start searching the DTT channels.



If you have 32/37LD9700C/N:

5. The box appears to ask you to select language for DTT auto tuning.
6. Using ↔ button, select language from the list and press OK button.
7. Then, using ↔ button, select your residing country and press OK button.
8. The dialogue box will appear to ask you if you wish to tune in the DTT channels and select “**Yes**” so that your TV will start searching the DTT channels.



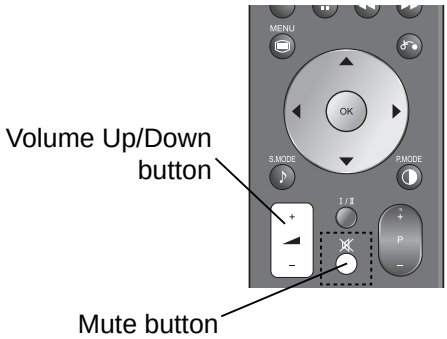
NOTE

- DTT auto tuning is not available on 9600 models.
- If you want to change the setting after completing this easy preset, press MENU button and set up individually.
 - See 24 25 about the Analogue setting.
 - See 41 about the DTT setting.

Volume UP/DOWN

1. To increase the sound volume, press + button on the remote control, or **Volume Up** button on the control panel.
 - The Volume Indicator value on the screen will shift right.

2. To decrease the sound volume, press − button on the remote control or **Volume Down** button on the control panel.
 - The Volume Indicator value on the screen will shift left.



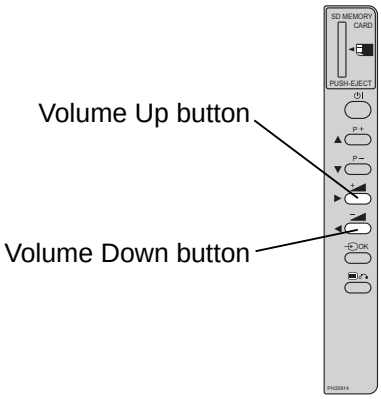
Mute

1. To mute the sound, press button on the remote control.
 - The sound of the unit is temporarily turned Off.
 - The colour of the Volume Indicator will turn into **magenta** while muting the volume.

2. To turn the sound back, press button again, or Volume Up button on either remote control or the control panel.
 - The colour of the Volume Indicator will turn back to **green**.

NOTE

- You can decrease the volume by pressing − button while the sound is muted.





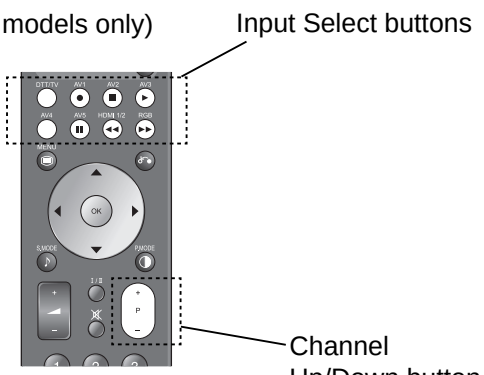
The Volume Indicator

BASIC OPERATION (continued)

Input Switching to TV/AV1~5, HDMI, and RGB

By pressing Input Select button, you can switch the input. (DTT input: 9700 models only)

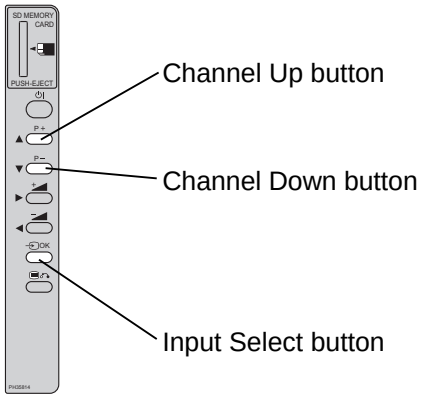
- To watch actual broadcast, press Input Select button on the control panel, the numeric buttons or Channel Up/Down button on the remote control.
- To display the image outputting from the external equipments connected to each terminal (DTT / TV, AV1~5, HDMI 1 / 2, and RGB), select corresponding mode.



1. Press **Input Select** button on the remote control.

2. The Input modes can be also switched by using **Input Select** button on the control panel.
 Each time this button is pressed, the screen displays corresponding mode by following order.

DTT → TV → AV1 → AV2 → AV3 → AV4 → AV5 → HDMI 1 → HDMI 2 → RGB → DTT



3. To directly go back to TV mode, pressing channel Up/Down button on either remote control or the control panel.
 Also, you can use the numeric buttons on the remote control.

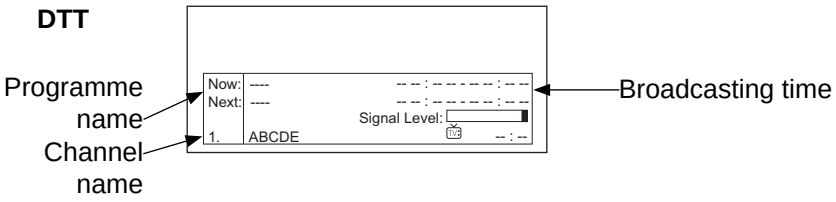
Input Signal Screen Display

The input signal status can be displayed on the screen by pressing the (i+) button of the remote control. (DTT mode: 9700 models only)

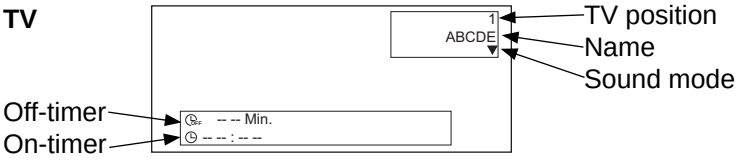
- The display in DTT mode will also appear as changing the channels and go out in approximately 3 seconds. Refer to 44 about the information banner.
- The display in TV/Video/RGB mode will go out in approximately 6 seconds.



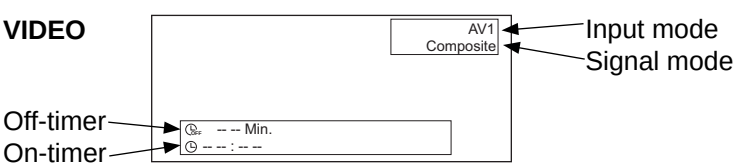
DTT



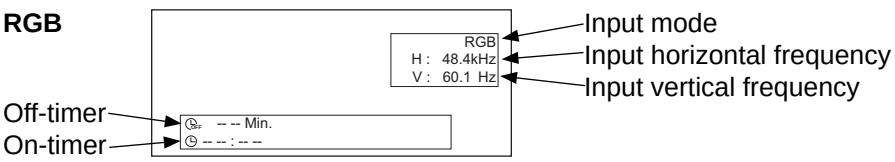
TV



VIDEO



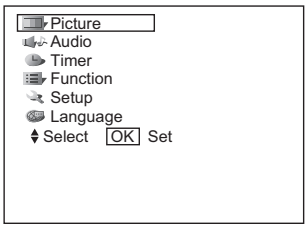
RGB



TV SETUP OPERATION

How to use the On-Screen Display (OSD) system

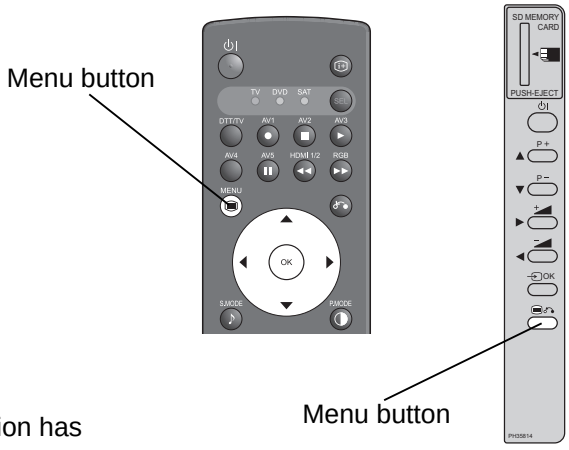
With the On-Screen Display system, you can access the various kinds of the features and functions in this product.



<Main Menu>

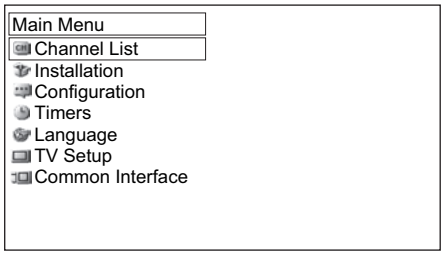
• Basic Operation

1. Press MENU button on the remote control or **Menu** button on the control panel of the unit. The **Main Menu** is displayed on the screen as shown on the right.
2. To select the item, press button.
 The selected item will be highlighted in Yellow.
3. Press OK button to set your selection.
 The selected menu page will be displayed on the screen.
4. Use button to choose the item on the MENU page.
 Press OK button to set your selection.
5. Use button to adjust the item values or choose options.
 Press OK button to set your selection.
6. To exit from the menu, press MENU button.



NOTE

- The OSD menu screen will be closed automatically when no operation has been made for about one minute.
- If the item in menu is shown in grey, it means that it cannot be selected or adjusted.
- There is another main menu for DTT setting as shown.
 Refer to 40 about DTT main menu. (9700 models only)



<DTT Main Menu>

Language Menu

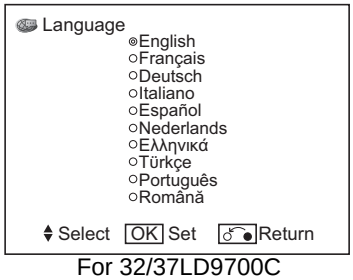
Select the language from the list so that you can display the OSD menu in the selected language.

How to set Language

1. Enter the “Language” menu from the Main Menu.
2. Select the appropriate language with cursor from the list.
 The selected item will be highlighted in Yellow.
3. Press OK button to set your selection.
 The black dot is marked inside of the circle when the selection is fixed.
4. Press MENU button to exit from the entire OSD menu.



For 32/37LD9700U/N



For 32/37LD9700C

NOTE

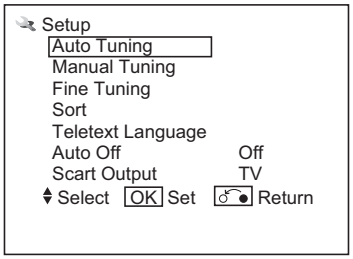
- This setting is for Analogue OSD language.
 As for the DTT OSD language, refer to "System language" on 41 .
 (9700 models only)

* The Analogue OSD language for 9600 models will be one of the two options shown depending on country.

TV SETUP OPERATION (continued)

Setup Menu (TV mode)

With this menu, you can access various kinds of features relating to TV channel settings.



Selected Items			Setup hint
Auto Tuning	Country	(Page 1)	Select the country where you watch TV so that it starts auto-tuning for appropriate channels. In case that some of the required channels are missed to tune in, set the channels with Manual Tuning Operation.
		(Page 2)	
		(Page 3)	
		(Page 4)	
	Search		Tune the local channels automatically. Press (OK) button to start searching.
Manual Tuning	Position		Press channel up (+) down (-) buttons to input position number (1~199, AV00) or channel number (C∗ ∗ or S∗ ∗).
	Search	CH	Select the channel entry method, and enter the digits for channel you wish to watch. Press (OK) button to start searching.
		S	
		MHz	
	Descrambler	Off	Set this to Off normally. If it is set to On when selecting other than DTT in Scart Output, AV1 (Scart) terminal operates as TV signal output, and the screen changes to display AV1 (Scart) input signal automatically.
		On	
	Name		1. Move the cursor to the first digit and select the letters with ◯ button. 2. Move to the next digit with ► button. 3. Press (OK) button again when you finish inputting all the letters. • The selectable letters are as follows: “0”~“9”, “A”~“Z”, “+”, “ ” (blank), “-” (displayed as blank), and “.” (period).
	Sound System	L	Select the sound system from 5 different modes.
		L'	
		BG	
		I	
		DK	

Information

• Use AV00 when connecting equipment such as a VCR via an RF (aerial type) cable.

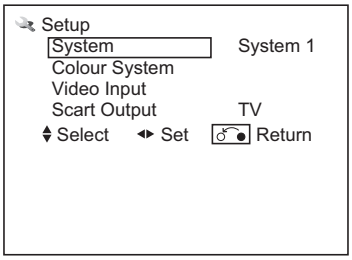
TV SETUP OPERATION (continued)

Setup Menu (TV mode) (continued)

Selected Items			Setup hint
Manual Tuning	Colour System	Auto	Select colour system from 5 different modes.
		PAL	
		SECAM	
		NTSC4.43	
		NTSC3.58	
	Skip	Off	It allows you to skip unregistered channels automatically when you use channel up (+) down (-) button to select channels. This function will automatically skip unavailable channels when set to on.
		On	
	NR	Off	The noise on the screen or interference could be reduced, especially at the area of weak electric field.
		On	
Fine Tuning	-56~+56		► : Increase the frequency data for the main tuner. ◄ : Decrease the frequency data for the main tuner.
Sort			You can change the order of channels as follows. 1. Move the cursor to the Channel row you want to change order and then, press (OK) button. 2. The colour of the letters on the designated line will be turned into yellow bracket and with []. 3. Move the designated row by using () button. 4. Press (OK) button to fix the position.
Teletext Language			The most appropriate Teletext Language is automatically selected depending on the country which you select in Auto Tuning. In case that the text is not displayed correctly, for example, because of living near a border, select another area as below. West Europe : West European countries and Turkey. (This is normal setting for use in Europe.) East Europe : East European countries Russian : Countries neighboring Russia and East European countries Farsi : Middle Eastern countries
Auto Off		Off	When no airwave has been received and no operation has been made for 10 minutes in TV mode, it turns to standby mode automatically.
		On	
Scart Output		DTT	AV1 (Scart) will be fixed as the selected mode. • When selecting "Monitor", it is possible to monitor only the composite video signal from AV2, AV3, AV4, AV5, TV, or DTT input that is displayed on the screen at the same time. • DTT output from scart is only available on 9700 models. • If "Descrambler" is set to ON when selecting other than DTT, it will be fixed as "TV" automatically.
		TV	
		Monitor	

Setup Menu (AV mode)

With this menu, you can select or adjust the condition of the input signals from each terminal.

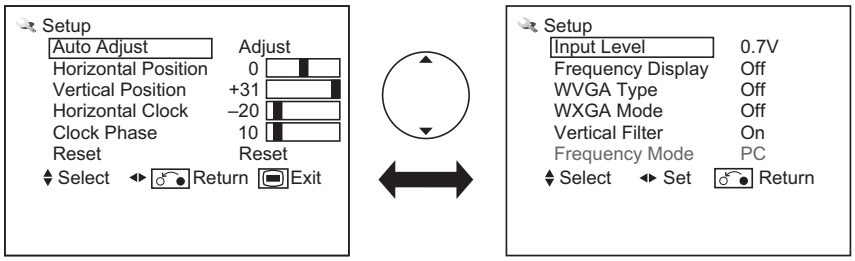


Selected Items				Setup hint
System	System 1			Do not change the original setting. (System1: Europe/Asia, System2:North America) • Composite and S-video input only.
	System 2			
Colour system	AV1~AV5	System 1	Auto	Select the colour system depending on the input signal. • Generally, select [Auto]. • In case that the input signal has too much noise, the signal level is too low, or the operation is unstable in [Auto], select the system according to the colour system of the input signal. • Composite and S-video input only.
			PAL	
			SECAM	
			NTSC4.43	
			NTSC3.58	
		System 2	Auto	
			NTSC-M	
			PAL-M	
			PAL-N	
Video Input	AV1		S.Video	For AV1 : Select depending on the type of input signal. • The default setting is [Composite]. Select [S.Video] when you want to watch S.Video image. For AV4 : Select the colorimetry depending on the input signal. • Generally, select [Auto]. • In case that the colour is not displayed correctly, select [HDTV] or [SDTV/DVD] to match the input signal. • Component Input only.
			Composite	
	AV4		Auto	
			HDTV	
			SDTV/DVD	
Scart Output	DTT			AV1 (Scart) will be fixed as the selected mode. • When selecting "Monitor", it is possible to monitor only the composite video signal from AV2, AV3, AV4, AV5, TV, or DTT input that is displayed on the screen at the same time. • DTT output from scart is only available on 9700 models. • If "Descrambler" is set to ON when selecting other than DTT, it will be fixed as "TV" automatically.
	TV			
	Monitor			

TV SETUP OPERATION (continued)

Setup Menu (RGB mode)

With this menu, you can adjust the display condition of the image which is inputting from the RGB terminals.
By pressing ▼button at the bottom of the 1st Setup menu page, the 2nd Setup menu page will appear on the screen.



Selected Items		Setup hint
Auto Adjust		Adjust Horizontal Position, Vertical Position, Horizontal Clock, and Clock Phase automatically. • Press (OK) button to start auto adjustment. The message “Auto Adjusting” is displayed. • Depending on the type of the signal, there is a possibility that the display may not be adjusted in its optimum condition with this function. In that case, please adjust each item manually.
Horizontal Position*	-63~+63	Adjust the display position horizontally. • When the position exceeds the possible range, the display colour will turn into Magenta.
Vertical Position*	-31~+31	Adjust the display position vertically. • When the position exceeds the possible range, the display colour will turn into Magenta.
Horizontal Clock*	-31~+31	Minimize the vertical stripes on the screen.
Clock Phase*	0~63	Minimize the blurring of the letters and stripes on horizontal row. • Make sure to adjust Horizontal Clock first before adjusting Clock Phase.
Reset		Reset all the set values on this Menu page to original factory settings.

Setup Menu (RGB mode) (continued)

Selected Items		Setup hint
Input Level	0.7V	• Normally, select [0.7V]. • Select [1.0V] only when the whole display becomes too white.
	1.0V	
Frequency Display	Off	Select whether indicating the PC signal frequency information on Input Signal Screen Display or not.
	On	
WVGA Type	Off	It allows you to switch display size to [Full] and [Real]. (See "Size Switching" on 55 for the details.) • This function is available only for WVGA signal. • Refer to "Recommended Signal List" on 75.
	On	
WXGA Mode	Off	• This function is available only for WXGA signal. • Refer to "Recommended Signal List" on 75.
	1280x768	
	1366x768	
Vertical Filter	Off	Reduce the flickers on the screen when set to [On].
	On	
Frequency Mode	PC	This mode is not available. (It is shown in grey.)
	Movie	

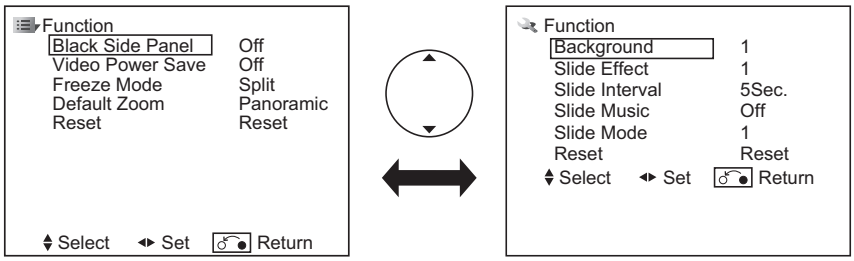
Information

- The items indicated by "*" can be automatically stored depending on the signal mode.
- The signal mode is identified by the Horizontal/Vertical frequency and the sync. signal polarity, which has almost same values in all the above items might be regarded as the same signal.
- The item "Auto Adjust" cannot be stored. Press OK button to start auto adjustment as needed.

TV SETUP OPERATION (continued)

Function Menu

This menu provides various ways to protect your panel, reduce power consumption, and set up utilizing the useful functions, such as Freeze Mode and Photo Input.



Selected Items		Setup hint
Black Side Panel	Off	This can change the colour of sidebars showing up in normal mode. (Off:grey, On:black) Please note that it is not available while operating Photo Input function.
	On	
Video Power Save	Off	During AV input, this helps to reduce power consumption when there is no video signal. In case of selecting AV input terminal which does not have signal input, it changes the power status to power save mode in AV4 and standby mode in other AV input. (See 68 in details.)
	On	
Freeze Mode	Split	This is the useful function to watch the program in both still and active pictures. (See 60 in details.) • Split: half sized images • Strobe: thumbnail sized images
	Strobe	
Default Zoom	Panoramic	You can set the display size for TV / AV input screen appearing first when turning the main power On.
	4:3	
	Full	
	14:9zoom	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.

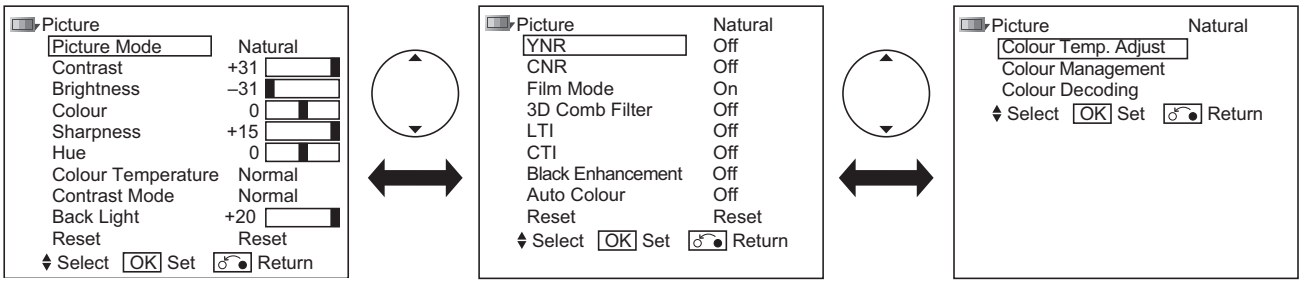
Function Menu (continued)

Selected Items		Setup hint
Background	1	This is available only for Photo Input function. Switch the pattern of background. See details on 65.
	2	
Slide Effect	Off	This is available only for Photo Input function. You can select the method of switching slides during slide show. See details on 63.
	1	
	2	
Slide Interval	5Sec.	This is available only for Photo Input function. You can select the interval time for switching slides during slide show. See details on 63.
	10Sec.	
	30Sec.	
Slide Music	Off	This is available only for Photo Input function. You can select the preferred Background Music during slide show. See details on 63.
	1	
	2	
Slide Mode	1	This is available only for Photo Input function. You can select where to start the slide show. See details on 63.
	2	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing OK button.

TV SETUP OPERATION (continued)

Picture Menu (TV/AV mode)

In this menu, you can make specific adjustments for the picture based on your preference.
By pressing ▼button at the bottom of each menu page, the next Picture menu page will appear on the screen.



Selected Items		Setup hint
Picture Mode	Dynamic	You can make the best selection from 3 modes depending on the lighting condition and intended use. Dynamic: Suitable for the brighter conditions. Natural : Suitable for the normal lighting condition. Cinema : Suitable for watching movie.
	Natural	
	Cinema	
Contrast*	-31~+31 (+32~+40)	This adjusts the contrast to meet the lighting environment by using ◄► button. • The maximum value can be extended to [+40] by pressing and holding ► button at [+31], which changes the colour between those numbers from yellow to magenta. This is the special feature prepared for the dark scene. At the normal condition, it is recommended to set the value less than [+31].
Brightness*	-31~+31	With this function, black is adjusted to change the overall brightness by using ◄► button.
Colour*	-31~+31	It can adjust colour density based on your preference by using ◄► button.
Sharpness*	-15~+15	Preferred sharpness can be adjusted by pressing ◄ button for Softer image or ► button for Sharper image.
Hue*	-31~+31	Pressing ◄ button enhances red and weakens green, while pressing ► button weakens red and enhances green. The setup hint is adjusting for the realistic skin colour.
Colour Temperature*	Cool	You can select from 4 settings (default) depending on the colour condition with ◄► button.
	Normal	
	Warm	
	Black/White	

Picture Menu (TV/AV mode) (continued)

Selected Items		Setup hint
Contrast Mode*	Dynamic	It allows you to choose from 3 modes. Dynamic: Sharpen the gradation to improve the contrast feeling. Normal: Reproduce as faithful gradation as possible. Auto: Adjust to natural brightness without blurred white by detecting the bright parts on images.
	Normal	
	Auto	
Back Light	-20~+20	Adjust the brightness of the Back Light for the maximum visibility.
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.
YNR*	Off	This is a noise reduction system for picture signal.
	Low	
	High	
CNR*	Off	This is a noise reduction system for colour signal.
	Low	
	High	
Film Mode*	Off	On: Automatically identify if it is the movie film and faithfully reproduces the original film images. Off: Set to Off if the image does not look natural.
	On	
3D Comb Filter*	Off	This is available only when receiving NTSC/PAL composite signal. This reduces the dot and colour blurring in minute scales so that it can reproduce purer colour.
	Low	
	High	
LTI*	Off	Adjusts the sharpness of the picture signals.
	Low	
	Middle	
	High	
CTI*	Off	Adjusts the sharpness of the colour signal.
	Low	
	Middle	
	High	
Black Enhancement*	Off	Adjusts the black level compensation.
	Low	
	Middle	
	High	
Auto Colour*	Off	This monitors and adjusts the colour to maintain constant colour levels. It also maintains natural flesh tones while preserving fidelity of background colours. This is available only when receiving an NTSC composite and S.Video signal.
	On	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.

Picture Menu (TV/AV mode) (continued)

Selected Items			Setup hint
Colour Temp. Adjust**	On	Amplitude	On: When you want to set specific adjustments in each of the 4 Colour Temperature modes. You can adjust on the amplitude and cut off. The settings reflect on the Colour Temperature. Amplitude: subdue the following colours on the brighter parts. Cut off : subdue the following colours on the darker parts. Off: Remains as default setting.
		Red	
		Green	
		Blue	
		Cut off	
		Red	
		Green	
		Blue	
	Off		
Colour Management**	On	Magenta	On: Turn On to adjust the balance of each colours depending on the user's preference. The settings reflect in each of the 4 Colour Temperature modes. Off: Remains as default setting.
		Red	
		Yellow	
		Green	
		Cyan	
		Blue	
	Off		
Colour Decoding		RGB/R/G/B	This can adjust R/G/B level and Hue to make the colour appear naturally for the user's appearance. First, select RGB (multiple colour screen) or R/G/B(single colour screens) to check the colour decoding effects while adjusting. Then, you can adjust the level of colour (red and green), colour intensity, and Hue. Press (OK) button to save the setting. The settings reflect in each of the 4 Colour Temperature modes.
		Red**	
		Green**	
		Colour*	
		Hue*	

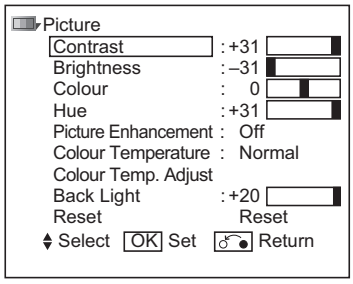
Information

The items indicated by "*" can be stored the setting for each of inputs and picture modes (Dynamic/Natural/Cinema). You can enjoy different setting depending on the selected input such as VCR in AV1.

In addition, the items indicated by "**" can be stored for each of colour temperature modes.

Picture Menu (RGB mode)

In this menu, you can make specific adjustments for the RGB picture based on your preference.



Selected Items		Setup hint
Contrast	-31~+31 (+32~+40)	This adjusts the contrast to meet the lighting environment by using ◄► button. • The maximum value of the menu display can be extended to [+40] by pressing and holding ► button at [+31], which changes the colour between those numbers from yellow to magenta. This is the special feature prepared for the dark scene. At normal condition, it is recommended to set the value less than [+31].
Brightness	-31~+31	Adjust according to personal preference by using ◄► button.
Colour	-31~+31	Adjust according to personal preference by using ◄► button.
Hue	-15~+15	Pressing ◄ button enhances red and weakens green, while pressing ► button weakens red and enhances green. The setup hint is adjusting for the realistic skin colour.
Picture Enhancement	Off	You can select the preferred sharpness on detailed parts.
	Low	
	Middle	
	High	
Colour Temperature	Cool	You can select from 4 settings (default) depending on the lighting condition with ◄► button.
	Normal	
	Warm	
	Black/White	

Picture menu (RGB mode) (continued)

<table>
<tr><th colspan="3">Selected Items</th><th>Setup hint</th></tr>
<tr><td rowspan="9">Colour Temp. Adjust.**</td><td rowspan="8">On</td><td>Amplitude</td><td rowspan="9">On: When you want to set specific adjustments in each of the 4 Colour Temperature modes. You can adjust on the amplitude and cut off. The settings reflect on the Colour Temperature.
Amplitude: subdue the following colours on the brighter parts.
Cut off : subdue the following colours on the darker parts.

Off: Remains as default setting.</td></tr>
<tr><td>Red</td></tr>
<tr><td>Green</td></tr>
<tr><td>Blue</td></tr>
<tr><td>Cut off</td></tr>
<tr><td>Red</td></tr>
<tr><td>Green</td></tr>
<tr><td>Blue</td></tr>
<tr><td>Off</td><td></td></tr>
<tr><td>Back Light</td><td colspan="2">-20~+20</td><td>Adjust the brightness of the Back Light for the maximum visibility.</td></tr>
<tr><td>Reset</td><td colspan="3">Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.</td></tr>
</table>

Information

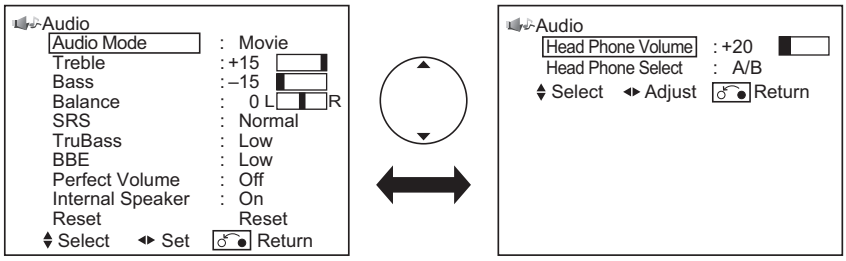
There is a useful function to automatically store the setting on menu in almost every item so that you do not have to reset every time. Furthermore, the following items can be stored more specifically.

In addition, the items indicated by "**" can be stored the setting for each of colour temperature modes.

TV SETUP OPERATION (continued)

Audio Menu

With this menu, you can adjust and customize the audio condition as you like.
You can move on to the next menu screen by pressing ▼button at the bottom.



Selected Items		Setup hint
Audio Mode	Movie	You can select the most suitable sound condition from 4 alternatives according to the contents. If you want to adjust each item value based on your preference, select “Favourite”.
	Music	
	Speech	
	Favourite	
Treble**	-15~+15	Adjust the Treble.
Bass**	-15~+15	Adjust the Bass.
Balance	-10~+10	Adjust the balance of the sound from right and left speakers.
SRS	Off	This system gives you the dynamic 3D sound. Select it depending on your preference.
	Normal	
	Wide	
TruBass	Off	TruBass gives you the enchanced bass sound. Select it depending on your preference.
	Low	
	High	
BBE	Off	BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism. Select it depending on your preference.
	Low	
	High	
Perfect Volume**	Off	It will automatically adjust the volume to its average level each time you change the channel.
	On	
Internal Speaker	Off	This needs to be switched to Off when you want to take audio from external epuipment. It is normally set to On when you operate the set using the built in speakers.
	On	
Reset		Reset all the set values on this Menu Page to the original factory settings.

TV SETUP OPERATION (continued)

Audio Menu (continued)

Selected Items		Setup hint
Headphone Volume	0~63	It allows you to adjust the volume of the headphone. The sound from the speaker will automatically set to MUTE when the headphone is connected to the terminal.
Headphone Select	A/B	Select either side of the display that you want to hear the sound with headphone during 2-picture mode. (See "Multi Picture Mode" on 56) • A/B : You can select either side A (left side) or side B (right side) which the sound comes into the headphone. The speaker icon will be displayed on the side you select. • B : You will hear the sound only from the side B (right side) of the display.
	B	

NOTE

The headphone output is NOT available when the image from the RGB or Photo Input is on the screen.

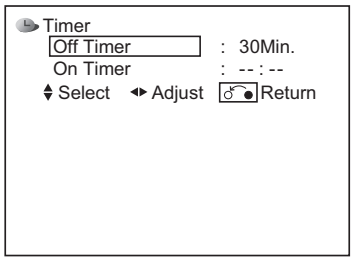
Information

There is a useful function to automatically store the setting on menu in almost every item so that you do not have to reset every time. Furthermore, the following items can be stored more specifically.

The items indicated by "**" can be stored the setting for each of Audio Mode.

Timer Menu

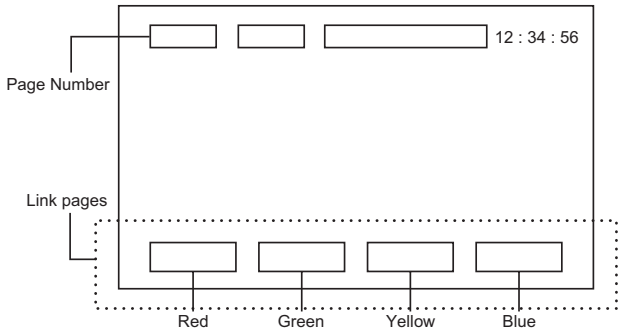
This allows the unit to turn Off (Standby mode) or On at set time automatically, which you may find useful.



Selected Items		Setup hint
Off Timer	--Min.	This function automatically sets the power to Standby mode when the selected time period has elapsed.
	30Min.	
	60Min.	
	90Min.	
	120Min.	
On Timer	**--:--**	This function automatically sets the power from standby mode to On when the specified time period has elapsed. Input the desired time within the range of 00:00 to 11:59 by using button on the remote control.

TV SETUP OPERATION (continued)

Analogue Teletext



● How to operate the Teletext

You can display the Teletext simply by pressing the remote control buttons.

NOTE
Select Teletext language from Setup Menu shown on 26 .

Operation	Press
To activate Teletext mode. To exit from the Teletext mode.	[TV⇔Text]
To split the screen into two and watch both Teletext information and actual broadcast at the same time. Press again to watch Teletext on a single screen.	[Text⇔TV+Text]
To display Index page.	[Index]
To access Subtitle service directly (if the channel has the Subtitle service broadcasting).	[Subtitle]
To display Hidden text. ex. The answers of the Quiz or the Game page. Press again to close the revealed answer.	[Reveal]
To return to actual broadcast temporarily while searching for the Teletext page you request. When the search is done, the designated page # will be displayed on the upper left of the screen. Press again to return to Teletext page.	[Cancel]
To access the link pages which are displayed at the bottom of the page. (Select the buttons corresponding to the colours of the letters on screen.)	[Colour]
To hold the text picture.	2-4-12 [Hold]



Information

- Each time the button is pressed, the screen will be switched from double screen to signal screen.
- Some Teletext pages do not display Link Pages at the bottom of the screen. Press button to display them.

DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION

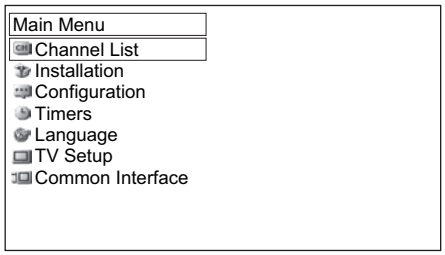
Digital Terrestrial Television (DTT) operation is not available on 9600 models.

How to use the On-Screen Display (OSD) system

With the On-Screen Display system, you can access the various kinds of the features and functions in this product.

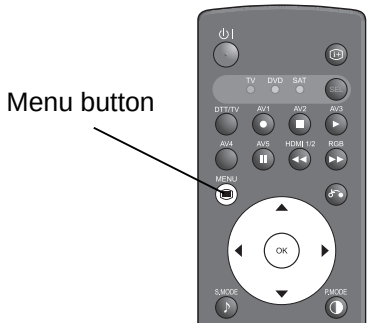
● Basic Operation

1. Press MENU button on the remote control or **Menu** button on the control panel of the unit. The **DTT Main Menu** is displayed on the screen as shown on the right.



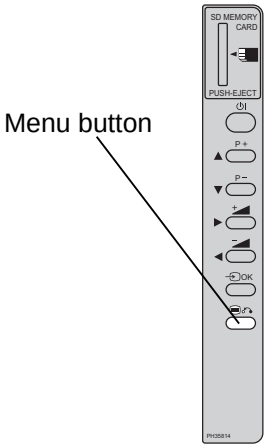
<DTT Main Menu>
*This is the example of 32/37LD9700U.

2. To select the item, press button.
 The selected item will be highlighted in Yellow.
3. Press OK button to set your selection.
 The selected menu page will be displayed on the screen.
4. Use button to choose the item on the MENU page.
 Press OK button to set your selection.
5. Use button to adjust the item values or choose options.
 Press OK button to set your selection.
6. To exit from the menu, press MENU button.



NOTE

- The OSD menu screen will be closed automatically when no operation has been made for about one minute.



About DTT Function

Please note that the DTT function of your television has several differences depending on the model and service of each country. Check the reference page for the details.

Menu / Function	Difference	Page
1. OSD		
Channels (Channel List)	For 32/37LD9700C/N, "Channels" appears in the main menu, and "Channel List" can be selected from "Channels" menu. For 32/37LD9700U, "Channel List" appears in the main menu.	24 40 42 43 48
Channel Sort	Available only for 32/37LD9700C/N.	43
Country	The preferred country can be selected from "Country" only for 32/37LD9700C/N.	41
Audio Language	The selectable items from the menu are different.	47
Subtitle		47
2. Service		
Receiver Upgrade	Depends on the service of each country.	49
Digital Teletext		44
Electric Programme Guide (EPG)		45
Timer programming		46

DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

Changing Preset

If you want to change the setting after completing the easy preset, set up individually as follow. Refer to 21 about the easy preset.

Re-Installing DTT channels

Reset to the factory setting.

1. Press MENU button on the remote control.
2. Select "Installation" on the DTT main menu.
3. Select "First Time Installation".
4. Select the preferred language by using button and press OK button. (32/37LD9700C/N only)
5. Select the country where you watch by using button and press OK button. (32/37LD9700C/N only)
6. The message appears as shown. Press "Yes".



Searching for New Channels.

1. Press MENU button on the remote control.
2. Select "Installation" on the DTT main menu.
3. Select "Add New Channels".
4. Choose either "Automatic Search" or "Manual Search". ("Automatic Search" (recommended) searches through all available broadcast frequencies for free-to-air channels whereas "Manual Search" searches on a single broadcast frequency.)

Changing System Language (OSD) and Country

If you want to change the setting after completing Easy Preset process, press MENU button to set up individually.

●System Language

You can select your preferred OSD language on DTT mode.

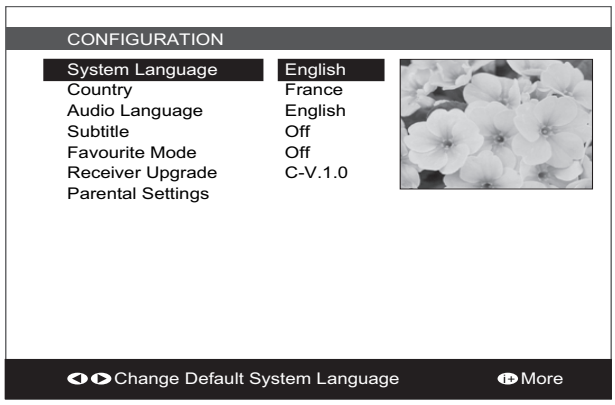
1. Press MENU button on the remote control.
2. Select "Configuration" on the DTT main menu.
3. Select "System language."
4. Select the language by using button and press OK button on the remote control.

For 32/37LD9700U/C

→English ↔ Français ↔ Deutsch ↔ Italiano ↔ Español ←
(English) (French) (German) (Italian) (Spanish)

For 32/37LD9700N

→English ↔ Svenska ↔ Dansk ↔ Suomi ←
(English) (Swedish) (Danish) (Finnish)



* The item "Country" appears only for 32/37LD9700C.

●Country (only for 32/37LD9700C/N)

Select the country where you watch TV. It will have an effect on the tuning.

1. Press MENU button on the remote control.
2. Select "Configuration" on the DTT main menu.
3. Select "Country".
4. Select the country by using button on the remote control.

For 32/37LD9700C

→ France ↔ Germany ↔ Spain ↔ Italy ←

For 32/37LD9700N

→ Sweden ↔ Denmark ↔ Finland ←

Channel Selections

There are 4 ways to select the channels: stepping through the channel, selecting by number, selecting from the on-screen channel list, and using the Electronic Programme Guide (EPG).

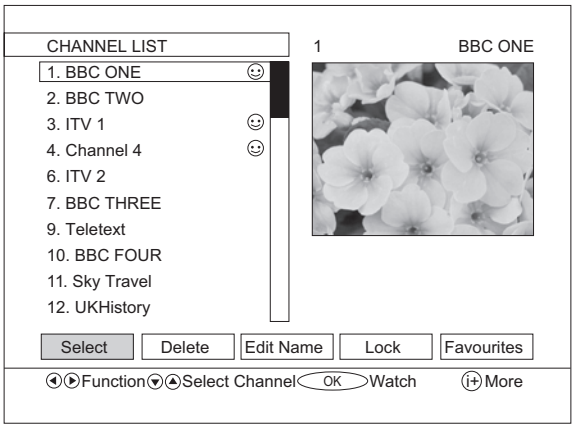
Stepping through the Channel

Press CHANNEL UP/DOWN button to switch the next or previous channel on the list. Information banner is displayed every time channel is switched.
Refer to 44 about the information banner.

Selecting from the On-screen Channel List

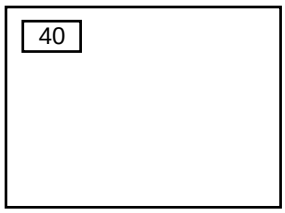
Selecting from the On-screen Channel List

1. Press MENU button on the remote control.
2. Select "Channel List" (from "Channels" if your TV is 32/37LD9700C).
3. Use button to move through the list, and RED/GREEN to display next or previous page.
4. Press OK button to select the channel, along with a quarter screen image of the selected channel.
5. Press MENU button again to return the normal full screen.



Selecting by Number

Enter the number based on its channel list by the numeric buttons on the remote control. A small box appears in the upper left corner of the screen to show entered number. Channel is switched along with the information banner. If the entered number is not valid for one of the setup channels, it automatically selects the closest channel.



Using the Electronic Programme Guide (EPG)

Press button to access EPG screen.
The EPG screen displays a list of the stored channels (5 channels per page) along with the description of the programme being broadcast.

To change channels, use and RED/GREEN buttons and then OK button.

Refer to 45 regarding Electronic Programme Guide for details.

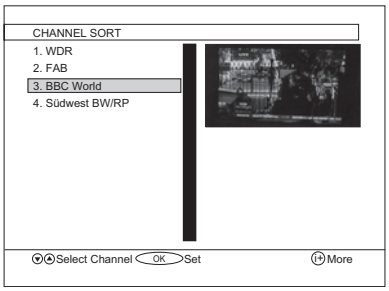
NOTE

Please note that DTT menu and Teletext image (without picture) cannot be supported at the same time. (Audio and picture are available.)
The followings are the examples.
• If the quarter images on EPG or Channel List screen is from Teletext, those images cannot be displayed.
• If you try to display the menu whilst displaying Teletext (without picture), the teletext screen becomes unavailable.

DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

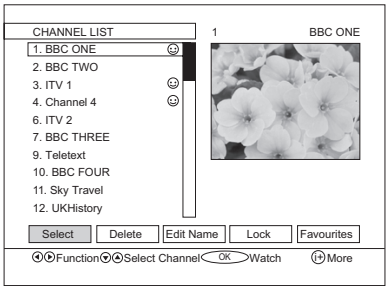
Channel Sort

If your TV is 32/37LD9700C in Spain, Germany, or Italy and 32/37LD9700N in Denmark, you can sort the channels manually as you want. (The channels in UK, France, Sweden and Finland will be automatically sorted when installing.)



1. Press MENU button.
2. Select "Channels" on the DTT main menu.
3. To sort the channels, select "Channel Sort" by pressing OK button.
4. Select the channel you wish to sort with button and then press OK button.
5. Using button, shift the channel to the preferred position and press OK button.

Channel Editing



1. Press MENU button on the remote control.
2. Select "Channel List" (from "Channels" if your TV is 32/37LD9700C/N) on the DTT main menu.
3. To edit the channel, highlight the required channel with button.
4. Then, using button to select one of the buttons at the bottom of screen depending on the needs.

Button	Functions	Procedures
Delete	Delete the unwanted channel.	The warning message shows up to confirm the deletion.
Edit Name	Rename the channel.	The channel name highlighted with the first character appears. Use button to select each of character. Then, pressing button changes the highlighted characters (ex. UP key : a → b, DOWN key : b → a). Numeric buttons can be also used to replace the highlighted character. Refer to the "Character Input" table as shown below for details.
Lock	Lock the channel with the code.	The password dialogue is displayed. Enter the parental Lock code. Refer to 48 regarding the parental Lock code.
Favourites	Set as a favourite channel. Only selected channels will appear when using P button on the remote control to change channel.	The icon (☺) appears to identify it as the favourite channel. To activate this setting, Favourite Mode needs to be turned ON from the Configuration menu. (See 49 for Favourite Mode.)

5. Press OK button to save the change.
6. Press MENU button to return to normal broadcast viewing.

Character Input : You can edit the name of channel by using numeric buttons of remote control as below.

Numeric buttons	1	2	3	4	5	6	7	8	9	0
Character	ABC 1 abc	DEF 2 def	GHI 3 ghi	JKL 4 jkl	MNO 5 mno	PQR 6 pqr	STU 7 stu	VWX 8 vwx	YZ 9 yz&.	Blank 0 +-*/!

* By pressing button, further characters and punctuation marks can be selected besides all of the above.

Utilizing the Infomation Tool

Information Banner

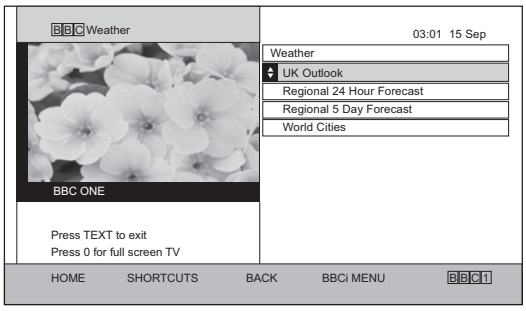
Whenever the channels are changed using the P+/P− button or numeric buttons, the TV displays the picture along with an information banner at the bottom of screen for approximately 3 seconds. The information banner also appears by pressing 1 button whilst watching DTT. Press it again to return to normal viewing screen.

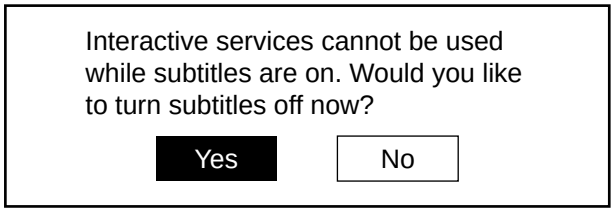


Digital Teletext (32/37LD9700U only)

Teletext can provide various information with text on the screen.

- Press button to access. Press it again to return to the normal screen.
- You can also access Teletext screen by pressing RED button, depending on the programme being broadcast. At the time, Press RED box might appear on the upper right corner on the screen.
- Digital teletext and subtitles cannot be activated at the same time.
 Subtitle should be turned off to activate teletext.
- If you try to activate teletext during subtitles ON, the dialogue box appears to ask you to turn subtitles off as shown.





Operation	Press
This switches the receiver between the TV mode and TELETEXT mode.	[TV⇔TEXT]
Use this to access a subtitle service directly rather than through a TELETEXT service (subject to subtitle service broadcasting).	[Subtitle]
Each of these buttons selects a link page displayed at the lower part of the screen.	[Colour]



NOTE

When you are asked to press SELECT in the menu of digital teletext, press OK button on the remote control.

NOTE

The service of digital broadcasting signal varies depending on the country.
Therefore, the Teletext for 32/37LD9700C/N is displayed as Analogue Teletext.
See 39 how to operate at Analogue Teletext mode.

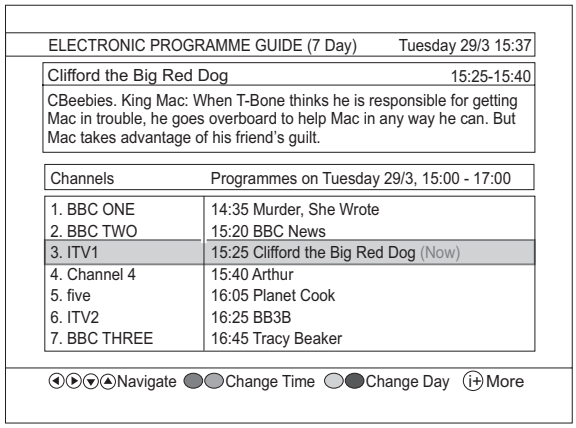
Utilizing the Infomation Tool (continued)

Electronic Programme Guide (EPG)

Like the Channel Lists, the EPG screen displays a list of the stored channels along with information on what programmes are being broadcast. You will have either 7 days EPG or Now and Next EPG if the service is available.

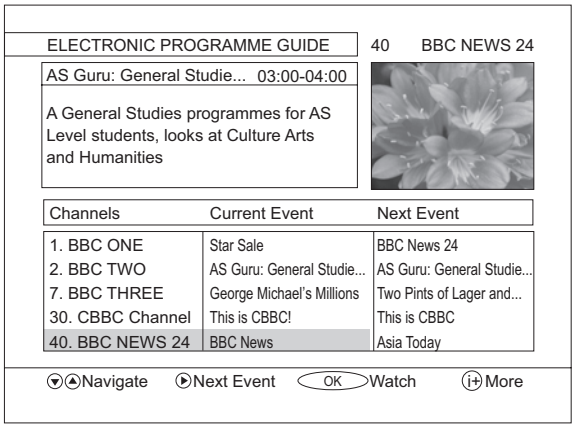
7days EPG

1. Press (i) button to display EPG screen.
2. Select channels with ↕ button.
3. Show programmes on channels in 7days by the following colour buttons.
 RED; Time backward
 GREEN; Time forward
 YELLOW; Day backward
 BLUE; Day forward
4. Select desired programme using ↔ button and then ↕ button. The description of desired programme shows up if available.
5. Press MENU button to switch between “7 days EPG” and “Now and Next EPG”.



Now and Next EPG

1. Change to “Now and Next EPG” from “7 Days EPG” menu with MENU key.
2. Select the page containing desired channel with RED or GREEN buttons and the desired channel using ↕ button.
3. Select Current Event or Next Event using ↔ button.
4. The detailed description of programme shows up if available. If it is too long to fit into the text window, use YELLOW or BLUE buttons to see it.



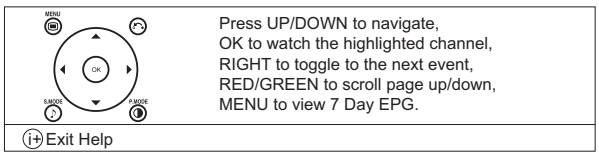
Press (i) button again to return to the normal screen.
Timmer Programming is available among the programmes in the future. See 46 in details.

NOTE

- Not all channels broadcast all programme information data. Some channels do not provide programme name and details. In that case, only channel names are displayed.
- The 7 day EPG function may not be available in all countries or broadcasts.
- For 32/37LD9700C/N, “Now and Next EPG” will be displayed first by pressing (i) button.

More Information Display

Each of the menu pages and EPG pages has (i+) More displays at the bottom of the page.
By pressing (i+) button whilst displaying those pages, a box appears showing how to proceed the next step.
Press it again to exit the display.



[Example : Now and Next EPG]

Timer Programming

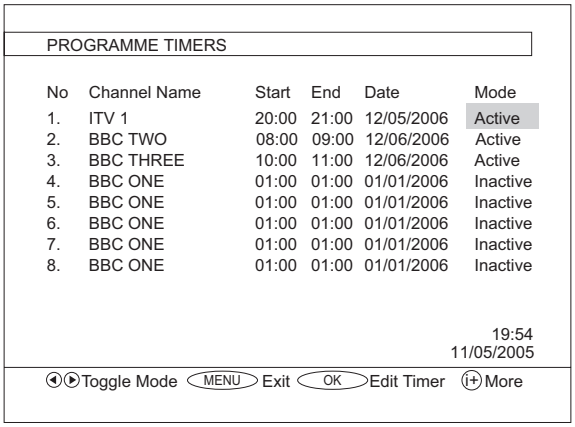
Timer Programming is available to not only record multiple programmes but also remind you that the desired programme is about to start whilst you are watching another channel.

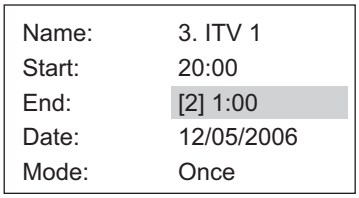
From "Timers" Menu

You can record multiple programmes from **"Timers Menu"**.

1. Press MENU button on the remote control.
2. Select "Timers" from the DTT main menu.
3. Highlight the item on the row of **"Mode"** using button.
4. Press OK button to display the timer entry window.
5. Set channel name using button.
6. Set Start Time, End Time, and Date with the numeric buttons.
7. Set the frequency mode (Once, Daily, or Weekly) using button.
8. Press MENU button to return to the Timer Screen. The mode will automatically be set to **"Active"** if time and date are valid. (The message **"Entered time is not valid"** is displayed if invalid and **"Please choose a date and time in the future"** is displayed if not input.).
9. Press MENU button or OK button to set up.
10. The message appears to ask **"Switching to timer channel"** to remind you that the selected programme is about to start. If in menu operation or displaying other than channel programme screen, the message **"A programme that you set a timer for has started. Would you like to switch to [channel name]?"** is displayed.

* The selected channel can be watched or recorded via Scart 1 Output. Refer to 15 for the details.





From EPG Screen

If you find the programme you wish to record on EPG screen, you can directly set the timer from EPG screen.

1. Press button to display EPG menu.
2. Using button, select the programme you wish to record.
3. Press OK button so that it leads to the Timers menu screen.
4. After confirming the setting, press button to return to EPG screen.

NOTE

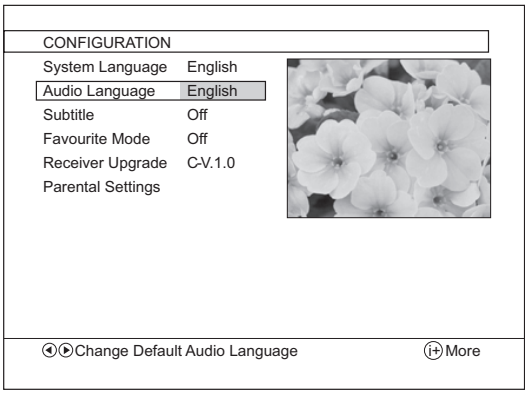
- Timer Programming can be set until 31, Dec 2037.
- You can set timers up to 8 programmes in total. If you try to set more than that, the box will ask you to deactivate one of them.
- A timer can not be set if it is overlapped with another. The box will appear if there is an overlap timer.

Configuring the Setting

Setting Audio and Subtitle Language

The available audio and subtitle languages can be checked from "Language" menu. Then, you can set your preferred language from "Configuration" menu as below.

Audio Language



MENU

1. Press button on the remote control.
2. Select "Configuration" on the DTT main menu.
3. Select "Audio Language" to highlight it.
4. Use button to select the language.

For 32/37LD9700U

English ↔ Welsh ↔ Gaelic

For 32/37LD9700C

English ↔ French ↔ German ↔ Italian ↔ Spanish

For 32/37LD9700N

English ↔ Swedish ↔ Danish ↔ Finnish

Subtitle

MENU

1. Press button on the remote control.
2. Select "Configuration" on the DTT main menu.
3. Select "Subtitle" to highlight it.
4. Use button to select other than "Off" in order to be activated.

For 32/37LD9700U

Off ↔ English ↔ Welsh ↔ Gaelic

For 32/37LD9700C

Off ↔ English ↔ French ↔ German ↔ Italian ↔ Spanish

For 32/37LD9700N

Off ↔ English ↔ Swedish ↔ Danish ↔ Finnish

You also can turn subtitles On/Off by pressing button.

Configuring the Setting (continued)

Setting the Protection

There are various kinds of protection to avoid certain operations: Channel Lock and Menu Lock (Main Menu Lock and Installation Lock).

Set Lock Key

To use the locks effectively, do change the PIN code from the factory default setting, which should be known and remembered only by you. The default setting is 0000.

1. Press MENU button on the remote control.
2. Select **"Configuration"** on the DTT main menu.
3. Select **"Parental Setting"**
4. A box asking for the Lock key is displayed. Enter the current PIN code.
5. From the next box appeared, select **"Set Lock Key"**

Menu Lock	Installation
Set Lock Key	

6. Enter new password twice.

Lock Key	****
Confirm	

7. Press MENU button to return to normal viewing in order to activate the lock.

Channel Lock

With Channel Lock, any channel can be locked so that it cannot be selected for viewing without four digits PIN code(See above).

1. Press MENU button on the remote control.
2. Select "Channel List" (from "Channels" if your TV is 32/37LD9700C).
3. Highlight the channel which you want to lock with ▲/▼ button.
4. Select [Lock] button at the botton of screen with ◄/► button.
5. Press OK button to set up and enter Pin Number.
6. Press MENU button to activate it.

Menu Lock

<Installation Menu Lock>

If re-installing the complete channel list, "Channel Lock" loses its effect. To avoid this, "Installation Menu Lock" can be set.

1. Press MENU button on the remote control.
2. Select "Configuration" from the DTT main menu.
3. Select "Parental Settings" on the configuration menu.
4. The dialogue box appears to enter the lock key.
5. Another dialogue box is displayed as shown.
6. Highlight "Menu Lock" and use button to select "Installation".

Menu Lock	Installation
Set Lock Key	

7. Return to the normal TV viewing to activate it.

<Main Menu Lock>

This locks out the complete menu system. Main menu is only available with the PIN code. Without the code, the user cannot add, delete, rename, move channels, and set timers.

To activate "Main Menu Lock", follow the same steps except #6 selecting "Main Menu" instead of "Installation".

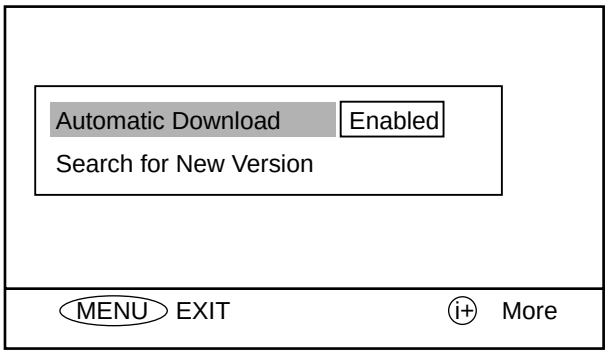
Configuring the Setting (continued)

Upgrading DTT

The DTT can be upgraded via the configuration menu.

1. Press MENU button on the remote control.
2. Select "Configuration" from the DTT main menu.
3. Select "Receiver Upgrade".
4. Press button to select "Automatic Download" along with "Enabled".

Automatic upgrade method takes place in standby/power save mode.
The indicator lamp will blink whilst this is taking place.The TV will check if new software is available every time you go to standby/ power save or every night at 3:00 a.m. if select "Enabled".
You can check the current software version on the configuration menu. (See 41 as an example.)



NOTE

- Manual upgrade starts if the "Search for New Version" button is pressed instead of "Automatic Download" button. To use this method, follow each dialogue box in sequence.
- We do not recommend that the set is left in standby/power save mode if you intend to leave the home for a long time.
- While downloading software, you cannot operate TV. No picture is displayed, either.

Setting Favourite Mode

By activating Favourite Mode from the configuration menu, only selected favourite channels will appear when using button on the remote control to switch channels.
Refer to 43 how to set the channel as Favourites.

1. Press MENU button on the remote control.
2. Select "Configuration" from the DTT main menu.
3. Select "Favourite Mode".
4. Use button to select "On" to be activated.

Common Interface

Common Interface enables you to plug in a module which for example receives Pay TV service.
Once the common interface module has been successfully inserted, select a service from the DTT main menu as follows.

1. Press MENU button on the remote control.
2. Select "Common Interface" to show a new menu.
3. Select one of the buttons to enter that module's menu.

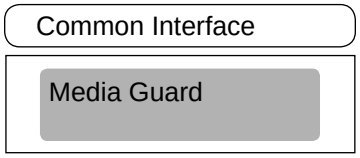


Figure 1.
Common interface Menu with modules inserted into the slots.

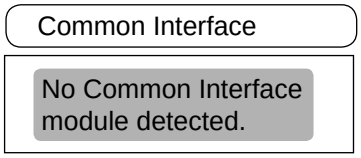


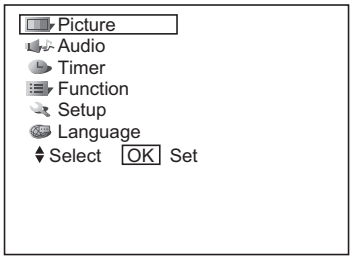
Figure 2.
Common interface without modules inserted.

Each module display different item, depending on the module inserted.

NOTE
Please ask the service provider if the module type is suitable for TV. The TV supports modules meeting DVB standard.

TV Setup Menu

"TV Setup" menu can be accessed from the DTT main menu. As selecting "TV Setup", it jumps to the TV main menu containing Analogue TV functions.
Refer to 24 ~ 39 regarding the settings for details.



FUNCTION

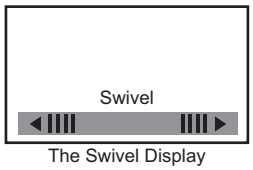
Power Swivel

With the Desktop stand, you can adjust the angle of the panel side to side by pressing SWIVEL button on the remote control.

1. Press SWIVEL button on the remote control.
 The Swivel Display (as shown in the figure on the right) will appear on the screen.

2. Adjust the angle of the panel with button while Swivel Display is on the screen.
 The unit will be able to rotate ±30 degrees to each side.





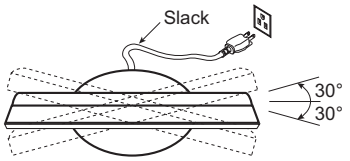
The Swivel Display

⚠CAUTION

- When you use the Power Swivel function, make sure that the Power Cord, cord or chain connected to the wall is loose enough to operate the Swivel function securely.
- Do not put hands or face near the unit while operating the Swivel. It could cause personal injury. Beware especially when small children are around the unit.

NOTE

- If the stand cable is not connected to the unit, the message “Not Available” will appear on the screen.
- The Swivel Display will automatically disappear when no operation has been made for about 6 seconds.



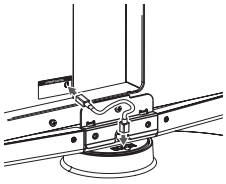
⚠CAUTION

- Do not push the panel with your hands while operating the Swivel. It could damage the panel and/or stand.
- Do not allow children to play or hang on the TV. These actions may tip it over, causing personal injury.
- Do not swing the unit back and forth.
- Do not place any fragile objects around the unit. The unit would hit the object(s) during the Swivel operation and could cause the breakage of the objects and/or the stand.
- To operate the Swivel function correctly, place the unit on the stable surface.
- When you use the unit as wall-mounting, disconnect the stand cable from the unit before installation.

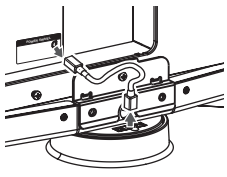
Information

About Swivel terminal connection

- To connect the Desktop stand to the unit.
 Connect the designated stand cable to the Swivel terminal on the rear side of the unit.



- To disconnect the stand from the unit.
 Before detach the stand from the unit, make sure to disconnect the stand cable from the Swivel terminal on the rear side of the unit.



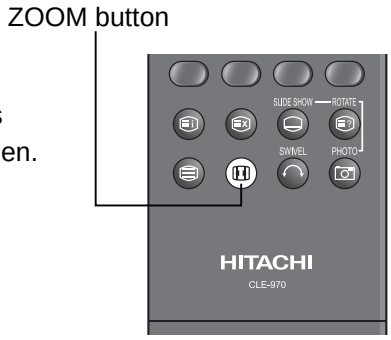
⚠CAUTION

- Turn Off the Main Power of the unit when connecting or disconnecting the stand cable to the unit.

FUNCTION (continued)

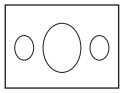
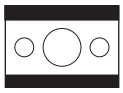
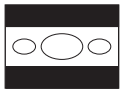
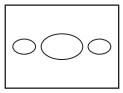
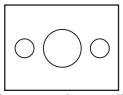
Size Switching

Each time ⊞ button of the remote control is pressed, the screen display size is switched in sequence, and the status will be displayed at the bottom of the screen.



DTT/TV/AV1~AV3 signal input

→Auto→Full→Zoom→C14:9L→14:9Zoom→Panoramic

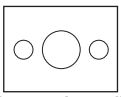
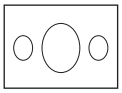
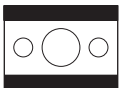
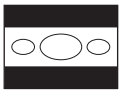
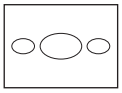
Current Output Image (Input Signal)	Display Size	To display suitable screen as follows.
	Auto	Play a image with the suitable format by automatically selecting depending on the picture format or programme being broadcast. Default Zoom setting in the Function Menu will be selected if WSS signal or size switching signal is not detected in DTT, TV and AV mode.
 (Squeeze)	Full	Play a 4:3 image faithfully in the standard vertical size and horizontally squeezed.
 (Vista)	Zoom	Play a 16:9 image in 4:3 screen (Vista size) faithfully. *In some cases, slight blanking may remain at the top and bottom.
 (14:9 Signal)	C14:9L	Play a 14:9 image in 16:9 screen, which is expanded vertically and squeezed horizontally. This mode is provided for the broadcasting programme with WSS code-C14:9L.
 (14:9 Signal)	14:9Zoom	Play a 14:9 image in 16:9 screen, which is expanded vertically. This mode is provided for the broadcasting programme with WSS code-14:9Zoom.
 (4:3 Signal)	Panoramic	Play a 4:3 image which enlarges horizontal and vertical size of the middle in equal scales, and displays both sides appearing much wider.

FUNCTION (continued)

Size Switching (continued)

AV4 / AV5 / HDMI1 / HDMI2 signal input

→Panoramic → 4:3 → Full → Zoom → C14:9L → 14:9Zoom

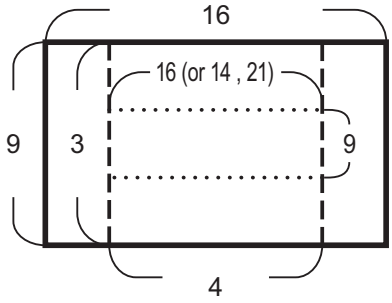
Current Output Image (Input Signal)	Display Size	To display suitable screen as follows.
 (4:3 Signal)	4:3	Play a 4:3 image on screen faithfully. Blanking occurs on both sides.
	Panoramic	Play a 4:3 image which enlarges horizontal and vertical size of the middle in equal scales, and displays both sides appearing much wider.
 (Squeeze)	Full	Play a 4:3 image faithfully in the standard vertical size and horizontally squeezed.
 (Vista)	Zoom	Play a 16:9 image in 4:3 screen (Vista size) faithfully. *In some case, slight blanking may remain at the top and bottom.
 (14:9 Signal)	C14:9L	Play a 14:9 image in 16:9 screen, which is expanded vertically and squeezed horizontally. This mode is provided for the broadcasting programme with WSS code-C14:9L.
 (14:9 Signal)	14:9Zoom	Play a 14:9 image in 16:9 screen, which is expanded vertically. This mode is provided for the broadcasting programme with WSS code-14:9Zoom.

NOTE

The display size in AV4, HDMI1, and HDMI2 is fixed at Full mode when receiving 1080i or 720p format signal.

Information

Aspect ratio represents horizontal : vertical ratio on screen.
For example, vista image is 16:9 in 4:3 image.



FUNCTION (continued)

Size Switching (continued)

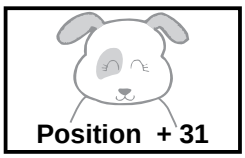
● Position Adjustment

Vertical picture position can be adjusted for **Panoramic**, **Zoom**, **C14:9L**, and **14:9 Zoom** mode as follows.

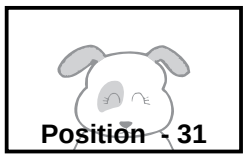
1. Press ◯ button while operating the picture size display.
2. “Position” display will appear.
3. Adjust the position by ◯ button.

Adjustment range of each picture size are as shown below.

Panoramic: -12 to+12 (The position cannot be adjusted in Panoramic 2 mode.)
Zoom: -31 to+ 31
C14:9L and 14:9 Zoom: -16 to+ 16
*When 1080i/60 component signal is received, it can be adjusted only 0 to +1.



Press▲



Press▼

● Vertical Size Adjustment at Panoramic Mode

Whilst displaying a picture except RGB input, the panoramic mode can be switched further between Panoramic 1 and Panoramic 2 with ◯ button on the remote control.
By selecting Panoramic 2, the vertical size is reduced so that you can see the whole image, including any subtitles, that might otherwise not be fully visible on the screen.

NOTE
The function does not work when selecting Auto [Panoramic].

Size Switching (continued)

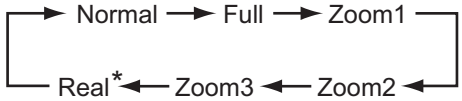
⚠CAUTION

Using a wide-screen monitor

- This monitor has a screen mode selection feature. If an incompatible screen mode is selected to play certain software, such as a TV program, the image would appear different from the original. Take this into consideration when making screen mode choices.
- Use of the wide feature displaying enlarged pictures in coffee shops, hotel and other establishments for commercial or public viewing purposes could infringe on the copyright holder's right protected by Copyright Law.
- When a normal 4:3 image (not wide screen) is displayed over the entire screen in the Panoramic mode, the peripheral image may disappear partly and/or appear distorted in some cases. Use 4:3 mode to view the image reflecting original intention.

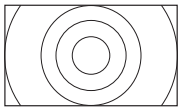
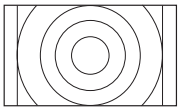
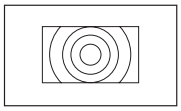
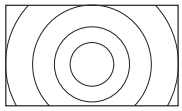
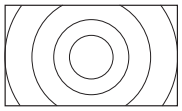
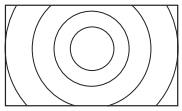
RGB signal input

You can select suitable size depending on the resolution.



*Real mode gives the image with same shapes as that of computer monitor.
This mode is only available for VGA(640x480) to WXGA(1280x768).

Display Area Selection Diagram

Resolution	Full display	Circular display				
Display	Full	Normal	Real*	Zoom1	Zoom2	Zoom3
640 X 480 (VGA)						
800 X 600 (SVGA)						
1024 X 768 (XGA)						
1280 X 1024 (SXGA)						
1600 X 1200 (UXGA)						

In the signal display chart shown above, some compression or stretching has taken place. Flicker may be noticeable in zoom1~3 modes depending on content.
To reduce this flicker, turn "Vertical Filter" On from "Setup Menu" (29).

FUNCTION (continued)

Multi Picture Mode

With this feature, you can watch different channels simultaneously on one screen in several ways.
As for the available signals, please refer to "Recommended Signal List" on 75.

- This function is NOT available in HDMI input.
- DTT input: 9700 models only



- To activate Multi Picture mode in either DTT, TV, AV, or RGB mode, press button on the remote control.

2-picture mode

You can watch two different pictures side by side.
This mode is available in DTT, TV and AV mode (AV1~5 Input).

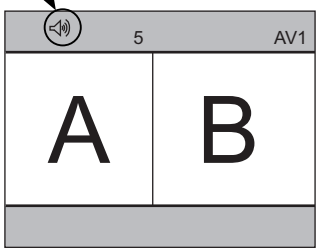
Control on the side with Speaker Icon
Audio is output from the selected picture with the speaker icon.
You can switch the Input modes (DTT, TV and AV1~5) or change channels only on the side with Speaker icon.

1. To shift the speaker icon, press button.
- The speaker icon will be shifted from A to B back-and-forth.

2. To change the channel on the selected picture, press button.

3. To select the Input mode on the selected picture, press **Input Select** buttons on the remote control.

The selected picture with speaker icon



NOTE
- In DTT or TV mode, you cannot select the same input channels on both sides simultaneously.
- You cannot select the same AV input on both sides simultaneously.
- The message “Not Available” will be appeared on the screen when the combinations of the **Input modes** are not acceptable. (See the Table below for details.)

Table: Mix-and –Match of the Input Modes

Side A \ Side B	DTT/ TV	AV1	AV2	AV3	AV4	AV5
DTT/TV	○*	○	○	○	○	○
AV1	○	×	○	○	○	○
AV2	○	○	×	○	○	○
AV3	○	○	○	×	○	○
AV4	○	○	○	○	×	○
AV5	○	○	○	○	○	×

*You can display TV picture on a side and DTT picture on the other side ; however, you cannot select the same input channels on both sides simultaneously in DTT or TV mode.

FUNCTION (continued)

Multi Picture Mode (continued)

2-picture mode (continued)

4. To switch to 4-picture mode, press 2-4-12 button once.

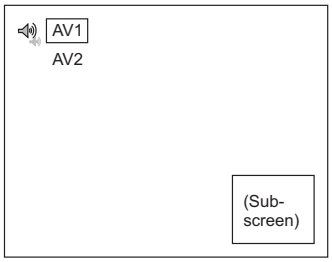
• The 4-picture mode is displayed on the screen.

NOTE

Each time 2-4-12 button is pressed, the picture mode will be switched by following order.

2-Picture → 2-Picture (1080i)* → 4-Picture → 12-Picture (TV mode only)

* When receiving 1080i format of component signal, there is a mode (2-Picture(1080i)) which sub-screen is displayed inside of the large screen (Main-screen). Please note that you cannot display the picture with component signal on Sub-screen.



[2-Picture (1080i) Mode]

5. To EXIT from the Multi Picture mode, press button.

• Next time you press button to activate the Multi Picture mode, it will start from 2-picture mode.

4-picture mode

You can watch 4 different pictures from live broadcasts and/or the external equipments at the same time.

NOTE

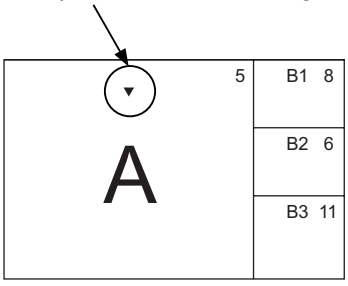
• The audio comes out ONLY from side A.

• You can change the channels or change Input modes on the side with ▼ (red triangle) mark.

1. To switch the ▼ location

• Press button on the remote control.
The ▼ mark will shift to side A and side B back-and -forth.

The selected picture with red triangle mark



2. To change the channel

Make sure that ▼mark is located on the side you want to make changes.

Side A: Press P button to select channels.

Side B: Select the frame (B1~B3) that you want to make changes with button. The characters of selected frame will be highlighted in green.

Press P button to select channels.

3. To change Input mode

Make sure that ▼mark is located on the side you want to make changes.

Side A: Press **Input Select** buttons on the remote control.

Side B: Select the frame (B1~B3) that you want to make changes with button. The characters of selected frame will be highlighted in green.

Press **Input Select** buttons on the remote control.

4-picture mode (continued)

NOTE

You cannot display the picture with Component signal on Side B screens.

4. To EXIT from Multi Picture mode, press button.
• Next time you press button to activate the Multi Picture mode, it will start from 4-picture mode.

5. To switch to 12-picture mode, press 2-4-12 button.
• The 12-picture mode is displayed on the screen.

12-picture mode

You can check 12 different live broadcast channels on one screen.
• The channels that are preset in advance (up to 200 channels) will automatically appear in certain intervals.

NOTE
• This mode is available only in TV mode.

1	2	3	4
5	6	7	8
9	10	11	12

1. To EXIT from the Multi Picture mode, press button.
• Next time you press button to activate the Multi Picture Mode, it will start from 12-picture mode.

2. When you press 2-4-12 button in this sequence, the 2-picture mode will be displayed.

Multi Picture Mode (continued)

Activate the Multi Picture Mode in RGB Mode

When you activate the Multi Picture mode in RGB Input, the picture will be displayed at the mode which the Sub-screen is displayed inside of the large screen (Main-screen).

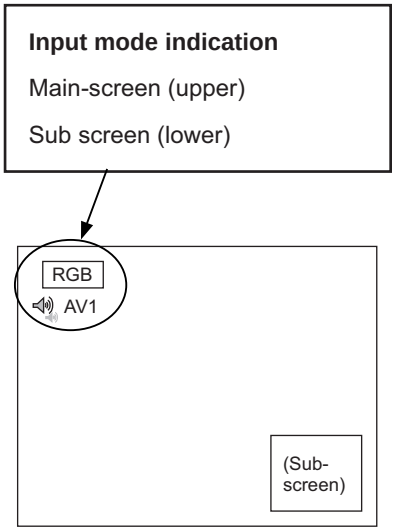
• To activate Multi Picture mode, press button on the remote control.

The speaker icon indicates the following.
• The audio sounds can be heard on the side with the speaker icon.
• When the speaker icon is on the Sub-screen
 • Change channels.
 • Switch the Input modes (DTT, TV and AV1~5) on the Sub-screen. (Main-screen is only for RGB Input.)

1. To shift the speaker icon , press button.
• The speaker icon will be displayed in front of the Input mode indication.

2. To change the DTT/TV channel of the Sub-screen.
• Make sure that mark is located on the Sub-screen.
• Press button to select channels.

3. To change the Input mode of the Sub-screen.
• Make sure that the speaker icon is located next to the Input mode indication of the Sub-screen (lower).
• Press **Input Select** buttons on the remote control. (AV1~5 are available)



4. To change the location of the Sub-screen.

• Press button. The Sub-screen will move up and down.

5. To exit from the Multi Picture mode, press button.

NOTE
• When operating Multi Picture mode, the “Power Save mode” is not available even though the Horizontal/Vertical Sync. Signal (or any kind of Video signal) has not input for certain period of time.

FUNCTION (continued)

Picture Freezing

By pressing (2-4-12) button, you can change to freeze mode easily anytime you like. Press it again to return to normal picture.

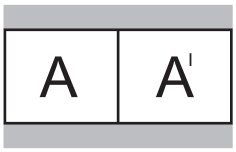


FREEZE button

There are two types of freeze mode. You can select these in the “Freeze Mode” from Function Menu.(30)

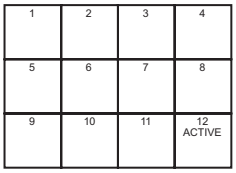
Split:
It displays 2 pictures from the same source. One is active (left), while the other is still picture (right). This is very useful in order to avoid missing something or to make a note of something, such as a recipe.

[Split]



Strobe:
It displays 12 pictures from the same source. 11 of them are still, while the last picture is active. This can be used to check such movement as swinging of golf club or baseball bat.

[Strobe]



This function is also available in DTT and AV input mode besides TV mode. Refer to the table as shown in “Recommended Signal List” on 75.

FUNCTION (continued)

Photo Input Function

With this Photo Input function, you can enjoy watching Photos from such devices as Digital Still Camera and SD card along with useful features such as Slide Show with Background Music and Movie picture.



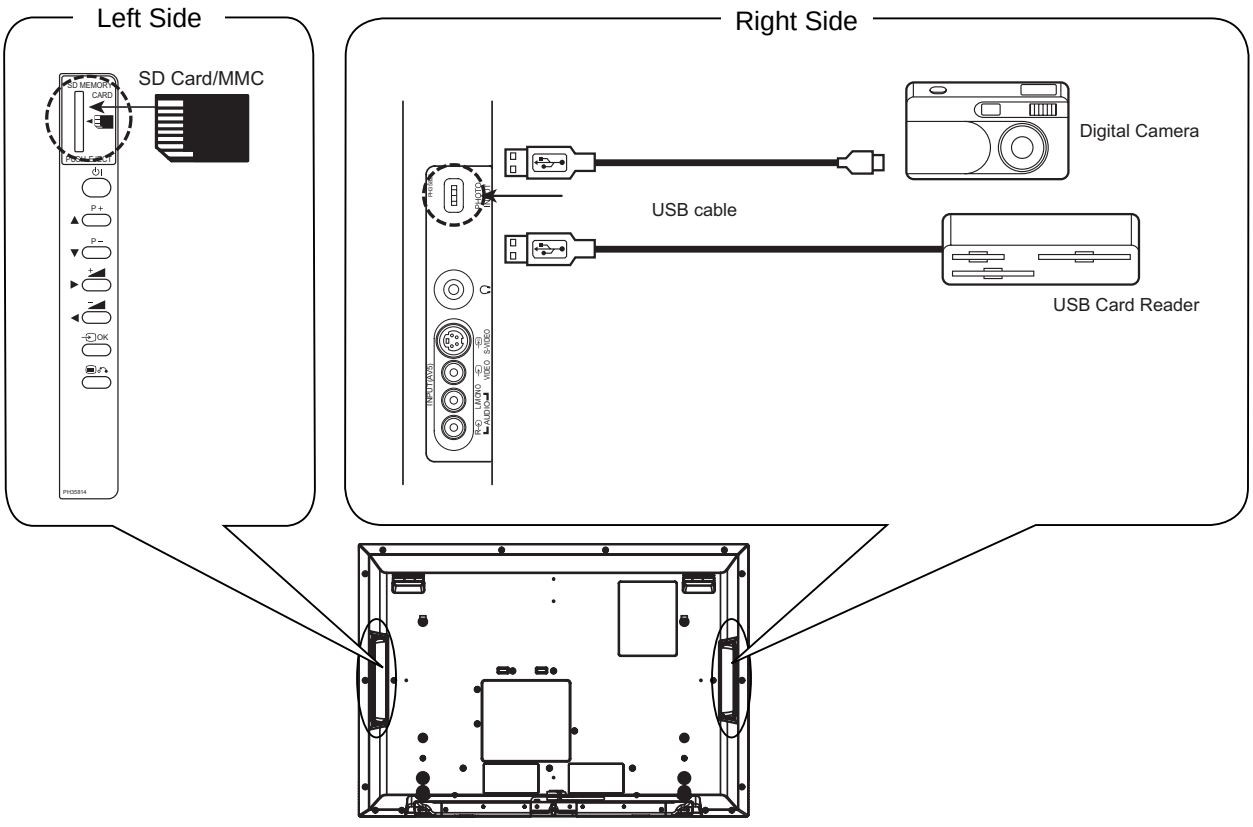
Photo Input button

Operating the Photo Input

1. Before operating this function, make sure to turn the power OFF /Standby.
2. Prepare the DSC (Digital Still Camera) / USB card reader/ SD card or MMC as follows.
 Digital Still Camera : Set up with reference to the content about "connecting to PC" in the user's manual of DSC.
 USB Card Reader : Insert only one memory card.
 SD Card / MMC : Ensure the card is inserted in the correct direction as indicated near the slot.
3. Connect the USB cable to the input terminal as shown (Right side), or insert the SD card /MMC into the slot (Left side).
4. Turn ON the TV after the USB cable is connected or the SD card / MMC is inserted.
5. Press (PHOTO) button on the remote control to activate Photo Input mode.
 (Then, turn ON the DSC. Refer to the user's manual of your DSC for the timing.)
6. Each time (PHOTO) button is pressed, you can switch the mode as follows.

 → Photo → Movie → Normal Screen →

 Make sure to turn the power OFF/Standby when disconnecting the DSC / USB card reader / SD card or MMC from the set.



Rear Panel (Left side and Right side)

NOTE

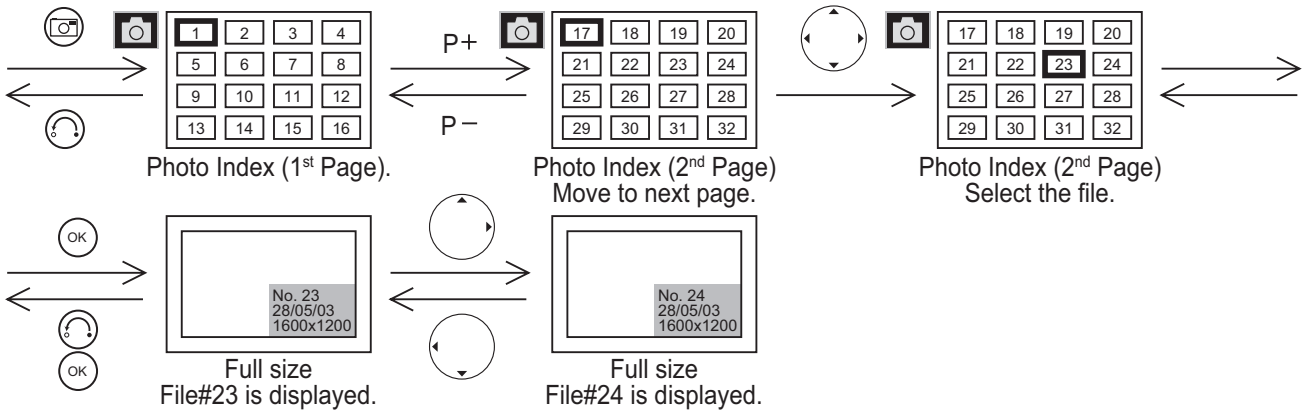
- Do not insert SD Card/MMC and USB cable at the same time.
- Do not insert anything other than SD Card/MMC into the slot. It could cause malfuction or damage to the slot.
- Do not allow children to play around the slot.

FUNCTION (continued)

Photo Input Function (continued)

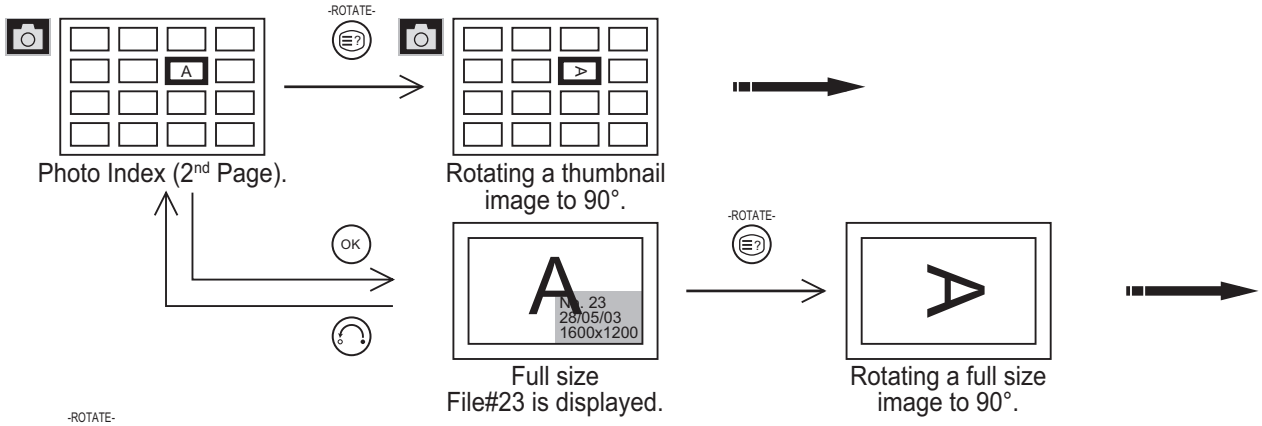
Displaying Still Picture in Photo Mode

Thumbnail-Size Image (Index) to Full-Size Image



- When you enter the Photo Index mode, the icon appears as the indication.
- You can also select the preferred file in both Thumbnail-size and Full-size image by inputting the file directly with numeric buttons of remote control.

Rotation Function



- Each time -ROTATE- button is pressed, the picture is rotated in the sequence of the following.

→ 90° → 180° → 270° → 0° →

Photo Input Function (continued)

Displaying Still Picture in Photo Mode (continued)

Slide Show Function

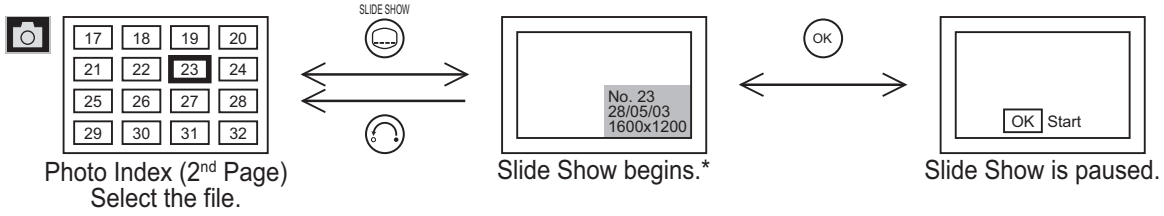


Photo Index (2nd Page)
Select the file.

Slide Show begins.*

Slide Show is paused.

*You can select where to start Slide Show. See “Slide Mode” in the table 1.
*You can also start the slide show when displaying the selected full size image, press SLIDE SHOW button by pressing SLIDE SHOW button.

- If the pause is left for more than a minute, the slide show restarts automatically.
- If you stop the slide show halfway, the photo index page selects the file in which you stopped.
- You can make specific adjustment on **“Slide Effect / Slide Interval / Slide Music / Slide Mode”** from “Function Menu (2nd page)”. While operating Photo Input function, you can jump to there by pressing MENU button. Press it again to return to the Photo Input page. (Refer to Table 1 as below.)

NOTE
Contrast will decrease automatically to reduce power consumption if stationary images such as still photos are left on the screen for more than 3 minutes. Please note that it is not malfunction.

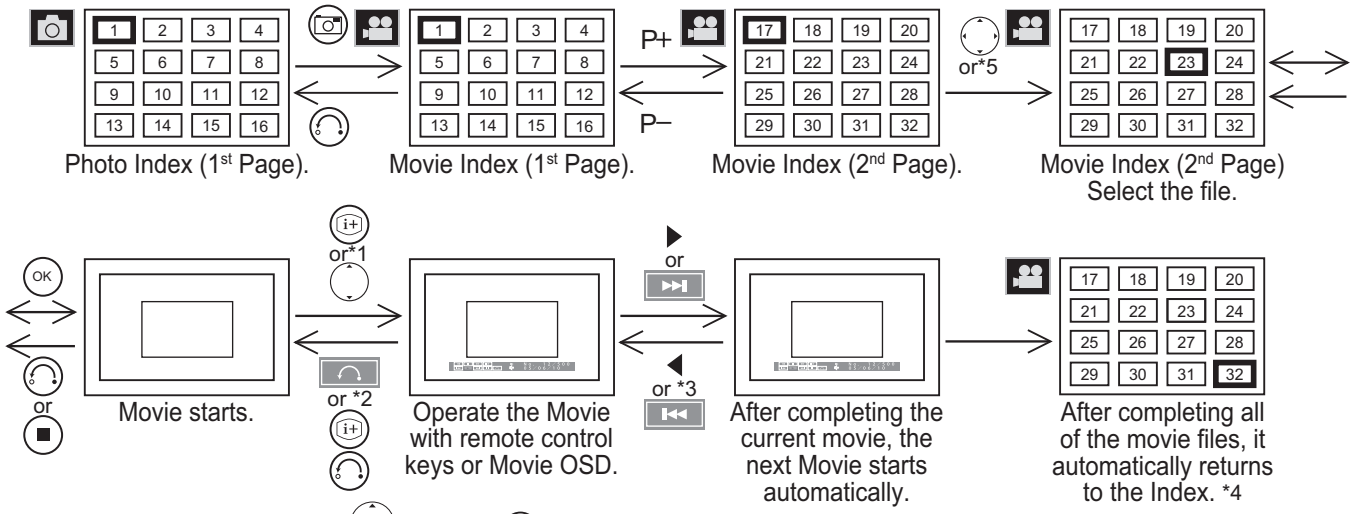
• Table 1. Slide Show Adjustment

Function Menu	Selection	Description
Slide Effect	Off→1→2	Select Slide Switching Method. Off: No effect 1: Fade In/Out effect 2: Wipe effect
Slide Interval	5Sec.→10Sec.→30Sec.	Select preferred interval times.
Slide Music	Off→1→2	Select the Background Music. Off: No sound. 1: Slow tempo music. 2: Up tempo music.
Slide Mode	1→2	Select starting point of slide show. 1: Start from the selected file. 2: Start from 1st file.

Photo Input Function (continued)

Displaying Movie Picture in Movie Mode

Thumbnail-Size Image (Index) to Full-Size Image:



*1: Press button or button to display the operation OSD.
*2: Press button in remote control or button (OSD) to exit from the OSD display.
*3: For the Previous button on remote control or OSD, pressing it once starts over the current movie. By pressing it again within 2 seconds after that, you can return to the previous movie.
*4: When it moves on the unsupported file, it automatically returns to the Index.
*5: You can also select the Thumbnail-Size image by inputting file # with numeric buttons of remote control.

[Operating the Movie]

• You can use the following control key to operate the movie.

	Play	Stop	Fast-forward	Rewind	Pause	Next	Previous*3	Zoom	Slow Play	Exit
Remote Control	AV3	AV2	RGB	HDMI1/2	AV5					
OSD										

• The movie OSD contains the file information and control keys as below.



• The following indications might appear in Movie Operation OSD.

: The movie does not have sound, or this function does not support only the sound of movie.
: This function does not support the movie.

• With button on the remote control, you can switch the size of movie display between normal and double in full size mode.

NOTE

• In case of displaying movie pictures,
1) If your DSC supports SD card/MMC, insert the card to the unit directly rather than USB.
2) If your DSC is PictBridge-compatible and has a function to switch between PTP and Mass Storage connection, change your setting to Mass Storage and then connect to Photo Input terminal so that it can be available on both Still and Movie pictures. PTP connection can display still pictures but not movie pictures.
3) If your DSC does not support SD card / MMC or Mass Storage connection, use USB card reader to connect with Photo Input terminal. Please note that we do not guarantee all DSC can make either or both Mass Storage and USB card reader connection.

• Comparing to movie pictures through SD card/MMC, the movie pictures using USB might have lower performance such as dropping frames.

FUNCTION (continued)

Photo Input Function (continued)

Other

• You can select the background pattern on “Background” from “Function Menu.”

Function Menu	Selection	Description
Background	1→2	Select preferred background pattern. 1: Striped texture of grey 2: Green checked pattern

• Press button whenever you want to return from full size image to index.
• The file information is displayed by pressing button.



Thumbnail-Size Image



Full-Size Image (Still)



Full-Size Image (Movie)*

* The size of the image depends on the resolution for the image.

To exit from Photo Input...

You can exit from Photo Input when…
Pressing button in Photo Index mode, or
Pressing button in Movie mode (Index and full).

OSD Information

Operation	Message
Accessing	“Loading...” *
Loading Files	“Loading...” *
Normal	no message
Not insert USB/SD/MMC	“! No Connection”
Not available format	“! No Connection”
Abnormal	“! No Connection”
No File	“! No File”

*The message “Loading...” starts to blink automatically if it is displayed on the screen more than 5 seconds.

Specification

Application	① Digital Still Camera corresponding to DCF standard. ② USB Card Reader with the memory containing pictures had taken by ① camera. ③ SD card/MMC card containing picture had taken by ① camera.	
Photo	Max number of photo file	500
	Max number of pixel	8176 x 8176(DCF JPEG format)
Movie	Max number of movie file	500
	Supported Video Format (Extension/Max number of pixel)	Motion JPEG (avi.mov/640*480)
		MPEG1 (mpg/640*480)
		MPEG4 (avi,mov,mp4,asf/352*288)
	Supported Audio Format	PCM (Incompressible format)
		ADPCM
		G.726
		μ-LAW PCM
		MPEG1-LayerII

Photo Input Function (continued)

⚠CAUTION

- In case of copying, viewing or editing a picture by computers, etc., it may not be displayed in this function.
- Do not connect any apparatus other than DSC, USB card reader, and SD card/MMC to the Photo Input connector. It causes the malfunction.
- Do not connect a DSC and USB card reader with USB HUB. Pictures may not be displayed correctly, or it causes a malfunction.
- Insert only one memory card even though the USB card reader has multiple slots for memory card. Pictures in multiple memories cannot be seen at the same time.
- Certain types of DSC, card readers, or SD card/MMC may not work with this Photo Input function.
- DSC with low battery power may not properly display photos in this function.
- Response time might vary depending on each image contents when switching pages, loading files, and playing each movie.
- Contrast will decrease automatically if stationary images such as still photos are left on the screen for more than 3 minutes.
- The OSD message “! No Connection” is displayed in case of the incomplete connection with USB cable or SD card / MMC and connection to a digital still camera or USB card reader without the memory card.
- The menu items other than “Picture,” “Function,” and “Audio” are not available, which are shown in grey.
- The functions of the multi picture, CH selection, freeze mode, aspect, mode display, and so on are not available.
- Whilst displaying still/moving images, blinking LED which indicates the access of DSC / USB card reader /SD card/ MMC, or displaying “Loading...”, do not turn the power off/standby mode nor remove/insert USB cable and memory card.
- The picture may not be displayed correctly, depending on the connecting device in case of extending the USB cable.
- PictBridge-compatible DSC can be connected to Photo Input terminal through PTP transfer, which supports still pictures but not movie pictures. Refer to the DSC user’s manual for PictBridge in details.
- Do not use this function other than private purposes. It might infringe copyright laws.
- Back up all of the data in the memory card in case if data was lost due to unexpected accident. We do not assume any liability for the losses by misuse or malfunction.

FUNCTION (continued)

Audio Switching

NICAM / Sound Multiplex(including A2) (TV mode)

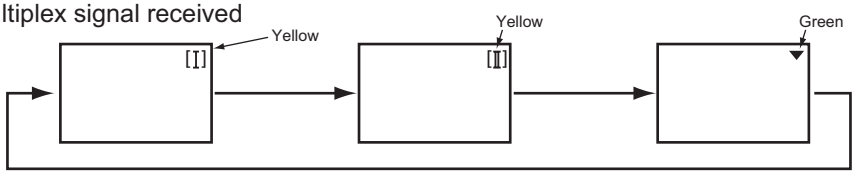
You can make optimum use of available audio by pressing Ⅰ/Ⅱ button of remote control. Audio can be switched only if receiving NICAM and sound multiplex signals; otherwise, pressing this button will have no effect, such as when only mono sound is received.
These can be divided into two main categories: Bilingual/Dual Sound broadcast and Stereo broadcast.

Bilingual/Dual Sound broadcast

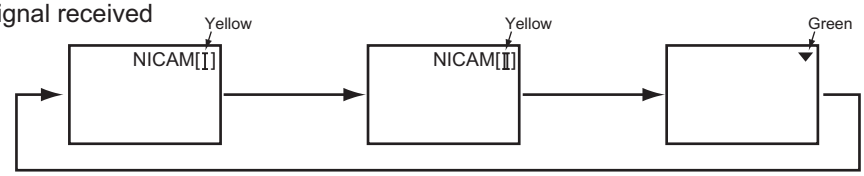
Bilingual broadcast is the broadcast available on the main and sub languages, while dual sound broadcast is available on the primary and secondary sounds; for example, some sports programs contain broadcast commentary on a game as primary sound, and a commentary about a team as the secondary.
When bilingual program is received, sound mode display appears in yellow as shown. Also, when receiving NICAM signals, NICAM display will appear.

Each time Ⅰ/Ⅱ button is pressed, the display is switched in the sequence of following.

Sound multiplex signal received



NICAM signal received



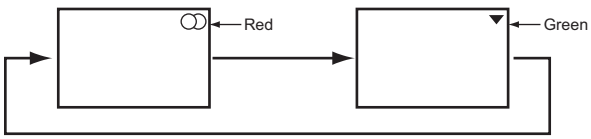
[Ⅰ]…Main language/Primary Sound
[Ⅱ]...Sub language/Secondary Sound
▼…force mono: This selects main language or primary sound.

Stereo broadcast

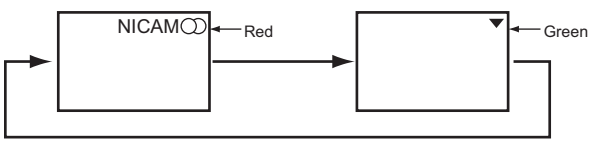
With stereo broadcast, you can enjoy different sound from either side.
When a stereo program is received, sound mode display will appear in red as shown.
Also, when receiving NICAM signals, NICAM display will appear.

Press Ⅰ/Ⅱ button to switch between stereo and mono sound.

Sound multiplex signal received



NICAM signal received



...Stereo
▼.....Force Mono

NOTE

- Please select ▼(force mono) in case of poor reception, noise, poor stereo sound due to signal condition so that you can receive a clear mono sound.
- ▽ represents the Mono broadcast.

Power Save Mode

When AV input is selected

• You are provided with the function to save power consumption when no signal is detected in AV input. Set to On in "Video Power Save" from Function Menu, which leads to the power save mode in AV4 /HDMI1 /HDMI2 and the Standby mode in other AV input. (Please see the table below for details) Refer to 30 about "Video Power Save".

	When no signal is detected		When signal is input during On in "Video Power Save"
	Condition	Indicating Lamp	
AV4,HDMI1, 2	Power Save	Orange	Turns On automatically.
AV1, 2, 3, 5	Standby	Red	Remains as Standby mode.

When the RGB input is selected

• When this unit is connected to a VESA DPMS computer, the Power Save mode (Operation mode : Off) can be set to be activated automatically when the computer is not being used to reduce power consumption by this unit.

RGB sync signal	Horizontal	Yes	No	Yes	No
	Vertical	Yes	Yes	No	No
PC signal		Active (normal display)	Blank (no display)		
Operation mode		On	Off		
Indicating lamp		Lights green	Lights orange		

Returning to operating status

• Operate the personal computer, or press either the INPUT SELECT button of the control panel or the RGB button of the remote control.

FUNCTION (continued)

DVD Player / STB Selection



You can use this remote control to operate DVD Player and Set Top Box of other makers as well as this set. After pressing (SEL) button, press (or hold) the required buttons to select the maker and type as shown below.

Set up hint

Example: HITACHI DVD ②

1. Set up the maker.
 Press (SEL) button to indicate the DVD LED on the remote control. While the DVD LED is blinking (Approx. 30 Seconds), press (i+) and ① buttons.
2. Set up the maker type.
 Release the ① button while keeping (i+) button depressed. Then press ② button.
3. Confirm the setting.
 After setting the maker and type, press the SUB POWER button on the remote control. If the DVD does not switch ON, repeat step 1 and 2 using other maker types as listed.

<"DVD" Selection>

Makers of DVD Player	Set Maker	Set type	Makers of DVD Player	Set Maker	Set type
HITACHI	(i+) ①	① ~ ③	RCA	(i+) ⓪	(i+) ①
FUNAI	(i+) ②	①	Mitsubishi	(i+) (i+)	(i+) ①
Pioneer	(i+) ③	① ~ ⑥	ONKYO	(i+) RED	(i+) ①~③
Panasonic	(i+) ④	① ~ ④	ZENITH	(i+) GREEN	(i+) ①
TOSHIBA	(i+) ⑤	① ~ ④	THOMSON	(i+) YELLOW	(i+) ①
Philips	(i+) ⑥	① ~ ②	SHINCO	(i+) BLUE	(i+) ①
JVC	(i+) ⑦	①	SKYWORTH	(i+) (i+)	(i+) ①
SAMSUNG	(i+) ⑧	①	BUBUKO	(i+) (i+)	(i+) ①
Sony	(i+) ⑨	① ~ ④	DENON	(i+) (i+)	(i+) ①~②
Sharp	(i+) (i+) 2-4-12	① ~ ②	YAMAHA	(i+) (i+)	(i+) ①~②

<"SAT" Selection>

Makers of STB Player	Set Maker	Set type
HITACHI	(i+) ①	(i+) ①~②
TOSHIBA	(i+) ②	(i+) ①
DGTEC	(i+) ③	(i+) ①
Panasonic	(i+) ④	(i+) ①

NOTE

Please note that not all models of the listed makers can be operated using this remote control.

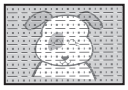
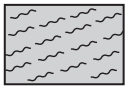
TROUBLESHOOTING

Before calling service technician, check the following tables first. If the problem is not be solved with the suggested procedures, contact your local dealer. For your safety, NEVER try to repair the product by yourself.

When Following Messages Appear on the Screen

Message	Condition / Action	Page
Power Save	This indicates it is in Power Save mode. (in AV/RGB mode) The indicating lamp lights in orange.	30, 68
No Sync. Signal	The unit cannot detect any signals from any input terminals. • Check if the cable is connected correctly and firmly. • Check if the power of any external equipment is ON. • Check if the input selection matches the connection terminal. • Check if the PC is in Power Save mode or not.	15 ~ 18
Invalid Scan Freq.	The unit receives unsupported signals. • Check if the cable is connected correctly and firmly. • Check if the input signal is compatible with the specification of the television.	73, 75
Not Available	This shows when the selected operation is not available.	
Check Antenna	Check the connection status when this message appears.	14
Auto Adjusting	This indicates that it is in the process of auto adjusting. (in RGB mode)	28
No Signal	• Check aerial lead if it is disconnected / damaged / misaligned. • Check with your dealer if it is out of signal area or not. (in DTT mode)	
Scrambled channel	• Check if the common interface module inserted correctly. (in DTT mode)	

Symptom and Check List

Symptoms		Check list	Page
No picture - no sound		• Check the Indicating lamp status (Off, Red, Green, or Orange). • Check the connection of the Power Cord and/or other cables. • Check if the Main Power of the unit or external equipments is ON. • Check if the TV mode is selected. • Check if the TV is in “Standby mode” or “Power Save mode”. • Adjust the values in “Picture menu” and “Audio menu”.	14 ~ 18, 20, 25, 68
Snowy picture-poor sound		• Check the antenna connection and direction. • The TV station may have broadcast difficulties. Try another channel.	14
Multiple images-normal sound		• Check the antenna connection and direction. • Fine tuning the TV. • Check the connection of the external equipments. • The TV station may have broadcast difficulties.Try another channel.	14, 25
Intermittent interference		• Check if the source of interference is shielded well. • Remove those kinds of electrical devices away from the TV.	
Normal picture, but no sound		• Check the volume level. • Check if the 🔇 button has been pressed or not. • Make sure that the headphone is NOT connected. • Check the connection of the external equipments.	22
No picture - normal sound		• Check the value level of “Brightness”, “Contrast” and “Back Light” in “Picture Menu”.	32, 35
The remote control does not work.		• Check if the batteries are installed correctly. • The batteries might be exhausted. Replace them with new ones. • Remove all the obstructions in front of the sensor window on the unit. • Check if you select the correct function by (SEL) button on the remote control. • Check if the buttons of the control panel can work.	11, 12
Normal picture but no colour-normal sound		• Check the connection of the external equipments. • Check the “Colour System” in “Setup Menu”.	15 ~ 18

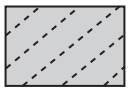
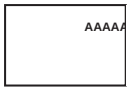
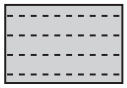
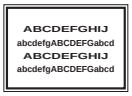
TROUBLESHOOTING (continued)

Symptom and Check List (continued)

Symptoms	Check list	Page
• No picture The Indicating lamp → Off	• Check if the Power Cord is plugged into the socket firmly. • Check if the Main Power is ON.	19, 20
• No picture The Indicating lamp → Orange It means that the unit is in “Power Save mode”.	• Check if all the cables of the external equipments are connected correctly and firmly. • Check if the power of the external equipments is ON. • Check if the TV/AV mode has been selected correctly. • Check if the PC is in Power Save mode or not. • Refer to “Power Save mode” and “When following messages appears on the screen”.	68
• No picture The indicating lamp → Green	• Check if the signal cable is connected correctly and firmly. • Adjust the level of Brightness, Contrast and Back Light lower.	15 ~ 18
• The top of the unit and surface of the panel heat up.	• It may happen when you use the unit for long hours. Turn off the Main Power of the unit for a while. Please note that this is not malfunction.	73, 75
• Image cannot be displayed in the correct position.	• Press i+ button to check if the input signal of the displayed image is compatible with the specification of the television.	28, 73, 75
• When the VCR is in special playback features (Fast Forward or Rewind), the screen gets dark and cannot see the image at all.	• It could happen when the VCR is connected to Component output, such as 480i. This is not malfunction. • Try Composite output or S-video output and check the picture again.	
• The images are not displayed on sub pictures in “Multi Picture mode”	• There are some combinations of input signals that the images are not displayed on sub pictures. Please check the Table of “2-Picture” and “4-picture/2-picture(1080i)” for details.	57 ~ 59, 76
• Screen display size cannot be switched correctly.	• The display size is fixed at “FULL” when the receiving signals are 1080i/60Hz, 1080i/50Hz, 720p/60Hz, or 720p/50Hz. • Check the signal status by pressing the i+ button on the remote control.	52 ~ 53
• Cannot be displayed the image from HDMI 1 or 2.	• Check if the cables are connected correctly. • Check the output format of the equipments. • (Please refer to “Connecting Procedure” and “Recommended Signal List”.)	73 ~ 75

TROUBLESHOOTING (continued)

Symptom and Check List (continued)

Symptoms		Check list	Page
• Cannot display the image from “Photo Input function”.		• Check the connecting equipments and image format. (Please refer to “Photo Input function”.)	61, 65, 66
• The image on the screen is moving in an oblique direction. (RGB input mode only)		• Adjust “Horizontal Clock” and “Clock Phase”.	28
• The coarse horizontal stripes could be seen in full-display mode. (RGB input mode only)		• Adjust “Horizontal Clock”.	28
• The part of the image is lacking.		• Try “Auto Adjust”. (RGB input mode only)	28
• The horizontal stripes are moving vertically with flickering screen. (RGB input mode only)		• Check the Signal status of the PC by pressing i+ button on the remote control. • If the Vertical Frequency of the PC is set to less than 85Hz, adjust its level higher (up to 85Hz). • Set “Vertical Filter” to ON. (Please note that you will have lower vertical resolution with this action.)	29
• When the characters are displayed on the whole screen, the vertical stripes appear and some of the characters are blurred. (RGB input mode only)		• Try “Auto Adjust”. • If the display condition is not improved with Auto Adjust, adjust “Horizontal Clock”.	28
• When the letter string is displayed in full-screen, all of the characters on the screen are blurred. (RGB input mode only)		• Try “Auto Adjust”. • If the condition is not improved with Auto Adjust, adjust “Clock Phase” till you get clearest image.	28
• When the small patterns are displayed on the screen, the entire screen is flickering. (RGB input mode only)		• Try “Auto Adjust”. • If the condition is not improved with Auto Adjust, adjust “Clock Phase” till you get flicker-free display.	28
• The thickness of the letters, lines, etc is not displayed evenly. (RGB input mode only)		• It could happen when the image with more than 768 lines of vertical resolution is displayed. Please note this is not malfunction.	75
• No Picture or sound is output. (DTT mode only)		• It might occur because it is tuned to digital teletext channel. Return to another channel.	44
• Forgotten channel lock code. (DTT mode only)		• Re-install channel to cancel channel lock.	41
• Forgotten menu lock code. (DTT mode only)		• Contact the customer service listed on the rear page.	-
• Due to the bad reception, block noise interferes during DTT mode. (DTT mode only)		• Check the aerial system to improve signal quality.	14

PRODUCT SPECIFICATIONS

SPECIFICATION			
Panel	Display dimensions	Approx. 32 inches (698 (H) x 392 (V) mm, diagonal 801mm)	Approx. 37 inches (820 (H) x 461 (V) mm, diagonal 941mm)
	Resolution	1366 (H) x 768 (V) pixels	1366 (H) x 768 (V) pixels
Net dimensions		including Stand: 813(W)x663(H)x350(D) mm excluding Stand: 813(W)x584(H)x114(D) mm	including Stand: 940(W)x736(H)x350(D) mm excluding Stand: 940(W)x657(H)x119(D) mm
Net weight		including Stand: 28.0kg excluding Stand: 22.3kg	including Stand: 32.5kg excluding Stand: 26.8kg
Ambient conditions	Temperature	Operating : 5°C to 35°C, Storage : 0°C to 40°C	
	Relative humidity	Operating : 20% to 80%, Storage : 20% to 90% (non-condensing)	
Power supply		AC220 - 240V, 50Hz	
Power consumption/ at standby		163W/<1W	195W/<1W
Audio output		speaker total 20W	speaker total 20W
(VIDEO input)			
Input terminals		AV1 : composite video input terminal (SCART) S video input terminal (SCART) L/R audio input terminal (SCART) AV2•3 : composite video input terminal (SCART) RGB video input terminal (SCART) L/R audio input terminal (SCART) AV4 : composite video input terminal (RCA) component video input terminal.(RCA) L/R audio input terminal (RCA) AV5 : composite video input terminal (RCA) S video input terminal (Mini DIN) L/R audio input terminal (RCA) HDMI 1•2 : HDMI input terminal Audio input terminal (3.5mm Stereo Mini Jack) Photo Input : Photo Input terminal / SD card slot	
Input signals		Composite video: PAL, SECAM, NTSC3.58, NTSC4.43, PAL60 Component video: 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60	
Output Signal		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) OUTPUT (HEADPHONE): L/R audio monitor- output terminal (Mini-pin) OUTPUT (SUB-WOOFER): Woofer output terminal AV1 : composite video output terminal (SCART) L/R audio output terminal (SCART) AV2•3 : composite video output terminal (SCART) L/R audio output terminal (SCART)	
(RF input)			
Input terminal / Receiving range		ANT : 75Ω Unbalanced / 44~870MHz	
RF Video System		PAL B, G, H / I / D, K SECAM B, G / K1 / L, L' / (D,K) DVB-T*	
(RGB input)			
Input terminals		Analogue RGB input terminal (D-sub 15-pin) Audio input terminal (3.5mm Stereo Mini Jack)	
Input signals		0.7 V/1.0 Vp-p, analogue RGB (Recommended Signal)	
Sync signals		H/V separate, TTL level [2KΩ] H/V composite, TTL level [2KΩ] Sync on green, 0.3 Vp-p [75Ω]	

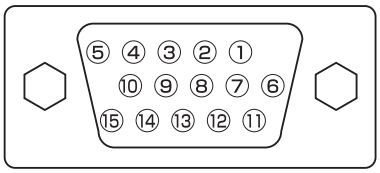
- The unit takes at least 30 minutes to attain the status of optimal picture quality.
- The SECAM D, K system might not be normally received, depending on the model.
- The DVB-T system is available only for 9700 models.

PRODUCT SPECIFICATIONS (continued)

Signal Input

RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R
2	G or sync on green
3	B
4	No connection
5	No connection
6	R.GND
7	G.GND
8	B.GND
9	No connection
10	GND
11	No connection
12	[SDA]
13	H. sync or H/V composite sync
14	V.sync. [V.CLK]
15	[SCL]



• When different kinds of input signals are simultaneously input to the unit via a graphics board, etc., the unit will automatically select the signals in the following priority order:

Sync signal type	Priority
H/V separate sync.	1
H/V composite sync.	2
sync.on Green *	3

* Even in the case of the recommended signals shown on the following page, there may be instances when correct display is not possible. In this case, use H/V separate sync, H/V composite sync.

S-input connector pin specifications

Pin	Input signal
1	Y
2	Y-GND
3	C
4	C-GND
Frame	GND

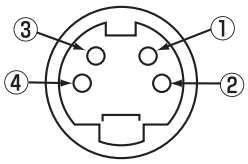
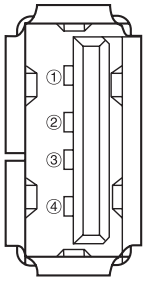


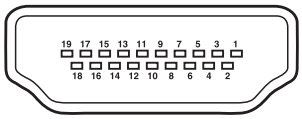
Photo-input connector pin specifications

Pin	Input signal
1	5V
2	DM
3	DP
4	GND



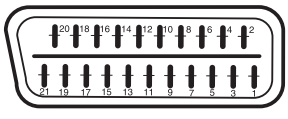
HDMI connector pin specifications

Pin	Input signal	Pin	Input signal
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data 1+	14	Reserved(N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CED Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		



SCART connector pin specifications

Pin	Input signal	Pin	Input signal
1	AUDIO OUT (RIGHT)	12	Not Used
2	AUDIO IN (RIGHT)	13	RGB-R GND
3	AUDIO OUT (LEFT / MONO)	14	GND
4	AUDIO GND	15	RGB-R / S.VHS CHROMINANCE IN
5	RGB-B GND	16	BLANKING SIGNAL
6	AUDIO IN (LEFT / MONO)	17	COMPOSITE VIDEO GND
7	RGB-B IN	18	BLANKING SIGNAL GND
8	AUDIO / RGB SWITCH / 16:9	19	COMPOSITE VIDEO OUT
9	RGB-G GND	20	COMPOSITE VIDEO / S.VHS LUMINANCE IN
10	Not Used	21	GND / SHIELD (CHASSIS)
11	RGB-G IN		



PRODUCT SPECIFICATIONS (continued)

Recommended Signal List

With HDMI input

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 480	59.94	31.47	25.18	EIA-861B
2	576i	720(1440) X 576	50.00	15.63	27.00	EIA-861B
3	480i	720(1440) X 480	59.94	15.73	27.00	EIA-861B
4	576p	720 X 576	50.00	31.25	27.00	EIA-861B
5	480p	720 X 480	59.94	31.47	27.00	EIA-861B
6	1080i/50	1920 X 1080	50.00	28.13	74.25	EIA-861B
7	1080i/60	1920 X 1080	60.00	33.75	74.25	EIA-861B
8	720p/50	1280 X 720	50.00	37.50	74.25	EIA-861B
9	720p/60	1280 X 720	60.00	45.00	74.25	EIA-861B

With RGB input

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 400	70.08	31.47	25.18	
2		640 X 480	59.94	31.47	25.18	
3	W-VGA	864 X 480	59.94	31.47	34.24	WVGA type : On
4	VESA	640 X 480	72.81	37.86	31.50	
5		640 X 480	75.00	37.50	31.50	
6		640 X 480	85.01	43.27	36.00	
7		800 X 600	56.25	35.16	36.00	
8		800 X 600	60.32	37.88	40.00	
9		800 X 600	72.19	48.08	50.00	
10		800 X 600	75.00	46.88	49.50	
11		800 X 600	85.06	53.67	56.25	
12		1024 X 768	60.00	48.36	65.00	
13		1024 X 768	70.07	56.48	75.00	
14		1024 X 768	75.03	60.02	78.75	
15		1024 X 768	85.00	68.68	94.50	
16		1152 X 864	75.00	67.50	108.00	
17		1280 X 1024	60.02	63.98	108.00	
18		1280 X 1024	75.03	79.98	135.00	
19		1280 X 1024	85.02	91.15	157.50	
20		1600 X 1200	60.00	75.00	162.00	
21		1600 X 1200	75.00	93.75	202.50	
22		1600 X 1200	85.00	106.25	229.50	
23	Macintosh	640 X 480	66.67	35.00	30.24	
24		832 X 624	74.55	49.72	57.28	
25		1024 X 768	74.93	60.24	80.00	
26		1152 X 870	75.06	68.68	100.00	
27	W-XGA	1280 X 768	59.833	47.986	81.00	
28		1280 X 768	69.997	56.137	94.760	
29	W-XGA	1280 X 768	59.876	47.776	79.50	WXGA Mode : 1280x768
30		1366 X 768	60.015	47.712	85.50	WXGA Mode : 1366x768

- The type of video board or connecting cable used may not allow for correct displays adjustment of Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase.
- The unit may fail to display an animation image correctly when a signal having a vertical frequency of 85Hz or higher is input to it.
- The unit differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal polarities. Note that different signals having all these elements alike may be handled as the same signal.
- Displaying images with more than 768 lines of vertical resolution at Full display (compressed display) can result in the interpolation of stripes.

PRODUCT SPECIFICATION (continued)

Recommended Signal List (continued)

With Multi Picture Function

• 2-Picture / (1080i)*

Input terminal	Sub / Main	DTT	TV	AV1~AV5 PAL SECAM	AV1~AV5 NTSC3.58 NTSC4.43	AV2, AV3 RGB	AV4 576i 576p	AV4 480i 480p	AV4 720p/50 720p/60	AV4 1080i/50 1080i/60	TELE TEXT
	DTT		○	○	○	○	○	○	○	○	○
	TV	○		○	○	○	○	○	○	○	○
AV1 ~AV5	PAL, SECAM	○	○	○	○	○	○	○	○	○	
	NTSC3.58/4.43	○	○	○	○	○	○	○	○	○	
AV2, AV3	RGB	○	○	○	○	○	○	○	○	○	
AV4	576i, 576p	○	○	○	○	○					
	480i, 480p	○	○	○	○	○					
	720p/50, 60	○	○	○	○	○					
	1080i/50, 60*	○	○	○	○	○					

(○ : Available)

• 4-Picture

Input terminal	Sub / Main	DTT	TV	AV1~AV5 PAL SECAM	AV1~AV5 NTSC3.58 NTSC4.43	AV2, AV3 RGB	AV4 576i 576p	AV4 480i 480p	AV4 720p/50 720p/60	AV4 1080i/50 1080i/60	TELE TEXT
	DTT		○	○	○	○					
	TV	○		○	○	○					
AV1 ~AV5	PAL, SECAM	○	○	○	○	○					
	NTSC3.58/4.43	○	○	○	○	○					
AV2, AV3	RGB	○	○	○	○	○					
AV4	576i, 576p	○	○	○	○	○					
	480i, 480p	○	○	○	○	○					
	1080i/50, 60	○	○	○	○	○					
	720p/50, 60	○	○	○	○	○					

(○ : Available)

With Picture Freezing Function

	Split	Strobe
DTT	○	○
TV	○	○
PAL, SECAM	○	○
NTSC3.58/4.43	○	○
576i	○	○
480i	○	○
576p	○	
480p	○	
720p/50, 60	○	
1080i/50, 60	○	
HDMI		
RGB(AV2, 3)	○	
RGB(PC)		

(○ : Available)

Guarantee

Thank you for purchasing this Hitachi Television.

In the unlikely event that this product should develop a fault, we undertake to repair or replace any part of the product which fails due to a manufacturing defect within 12 months of the date of purchase provided that ...

1. the product has been installed and used only in accordance with the instructions supplied with the product.
2. the product has not been repaired, maintained, or modified by any person other than a Hitachi authorized dealer.
3. the product serial number has not been removed or altered.

•This guarantee does not apply to a product acquired second hand or for commercial or communal use.
•This guarantee does not cover the replacement of exhausted batteries, the adjustment of user controls, or aerial alignment.
•Any parts replaced under this guarantee shall become the property of HITACHI EUROPE LTD.
•Please note that evidence of the date of purchase will be required before any service under this guarantee is carried out.

Use the boxes provided below to record your TV's Model and Serial Number - these are found on the rating plate located on the rear of the LCD panel. Also, record where and when you purchased this TV. This information will help any future queries you may have and should be used in all correspondence with Hitachi service centres.

MODEL	SERIAL NUMBER	DEALER/STORE	DATE PURCHASED

This guarantee does not affect your statutory rights.

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